NOVA BEDFORDIA CONDITA A.D.1787
LUCEM DIFFUNDO
SILVARUM REGIMINE DONATA A.D.1847

CITY DOCUMENTS.

MAYOR'S ADDRESS

TO THE CITY COUNCIL,

CITY GOVERNMENT,

ANNUAL REPORTS, ETC.,

For the Year 1890-91.

NEW BEDFORD:
MERCURY PUBLISHING COMPANY, PRINTERS TO THE CITY.
1891.

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1891 — CITY DOCUMENT No. 1.

ADDRESS

OF

CHARLES S. ASHLEY,

Mayor of New Bedford,

TO THE

City Council,

January 5, 1891.

NEW BEDFORD:
MERCURY PUBLISHING COMPANY, PRINTERS TO THE CITY.
1891.

ADDRESS.

GENTLEMEN OF THE CITY COUNCIL:

In accordance with approved usage I beg leave to call your attention to the present financial condition of our city.

From statements kindly furnished by the city treasurer and collector of taxes, I am enabled to present the following facts in relation to our financial standing at this time:

FINANCIAL.

TAXES.

Assessments for the year:

State tax,	$30,362.50
County tax,	50,632.30
City appropriations,	519,300.00
Overlay,	22,102.19
	$622,396.99
Collections,	603,154.38
Balance uncollected,	$19,242.61

The credits to the collector are as follows:

Paid State tax,	$30,362.50
Paid county tax,	50,632.30
Paid city treasurer,	491,386.88
Discounts and abatements,	30,772.70
Total credits,	$603,154.38

But 3.09 per cent. of the whole assessment of 1890 remains unpaid at this date.

The State and county taxes, as usual, were large, amounting in the aggregate to $80,994.80. This was, however, $5181.37 less than in 1889.

Of the taxes of 1889 and previous years, the collections amounted to $11,415.07.

The net amount paid by the national banks of the city for taxes of 1890 was $83,871.26 — $39,816.30 of which was included in the receipts by the collector of taxes, and the balance, $44,054.96, paid to the State treasurer.

The receipts from the Commonwealth were as follows:

Corporation taxes of 1890,	$60,775.43
Tax from national banks out of the city,	3,192.20
Tax on ships in foreign trade,	1,351.28
Total,	$65,318.91

RECEIPTS AND EXPENDITURES.

The receipts and expenditures for the past year, including balance of each in the treasury January 6, 1890, have been as follows:

Balance, January 6, 1890,		$25,625.43
Receipts from collector of taxes:		
Taxes, 1890,	$491,386.88	
Taxes, 1889,	6,673.30	
Taxes, 1888,	4,119.42	
Taxes, 1887,	505.32	
Taxes, 1886,	89.35	
Taxes, 1885,	4.00	
Taxes, 1884,	4.00	
Taxes, 1883,	6.00	
Receipts from other sources,	889,718.23	1,392,506.50
Total receipts, including balance,		$1,418,131.93
Expenditures per warrants of mayor,		1,393,147.29
Balance, Jan. 1, 1891,		$24,984.64

The receipts for water rates are included in the foregoing statement.

Amount received for rates for year ending Dec. 1, 1890,	$62,481.53
Amount received for rates for year ending Dec. 1, 1889,	55,745.89
Increase for the year,	$6,735.64

APPROPRIATIONS.

The appropriations, general and special, for the past year have been as follows:

General appropriations,		$554,300.00
Special appropriations:		
Cemeteries,	$2,200.00	
Division street school house and lot,	35,141.00	
Engine house and lot, Durfee street,	241.41	
Engine house, Head of the River,	850.00	
Fire department,	500.00	
Fire engine, horses, etc.,	7,500.00	

Highway department,	$17,000.00	
Incidentals,	21,400.00	
New Bedford and Fairhaven bridge,	3,500.00	
Pleasant street extension,	10,000.00	
Police telegraph signal,	16,150.00	
Public schools, incidentals,	7,000.00	
Public schools, teachers,	3,000.00	
Public schools, repairs of buildings,	6,750.00	
Printing, binding, etc.,	2,000.00	
Poor department,	1,500.00	
Repairs of city property,	1,898.80	
Truant school,	851.00	
Sewers, general account,	31,000.00	
Sewers, construction account,	33,029.41	$201,511.62
Total for 1890,		$755,811.62
Special appropriations as above,		$201,511.62
Less balance of unappropriated funds,	$51,539.97	
Corporation taxes due,	6,000.00	57,539.97
Amount to be provided for in 1891,		$143,971.65

MUNICIPAL DEBT.

The debt of the city at this date is as follows:

Water bonds, 7s,	$120,000.00	
Water bonds, 6s,	280,000.00	
Water bonds, 5s,	100,000.00	
Water bonds, 4s,	120,000.00	$620,000.00
Sewer bonds, 4s,	$136,000.00	
Sewer bonds, 3½s,	75,000.00	
Improvement, 6s,	223,000.00	
Improvement, 4s,	102,000.00	
Improvement, 3½s,	140,000.00	676,000.00
Bonds outstanding,		$1,296,000.00

The trust funds are as follows:

Sylvia Ann Howland bequest,	$100,000.00	
George O. Crocker bequest,	10,000.00	
Library funds, other than above,	4,100.00	
Cemetery funds, care of lots,	13,849.93	
Jonathan Bourne prize fund,	1,000.00	$128,949.93
		$1,424,949.93
Temporary debt,		125,000.00
Total debt, gross,		$1,549,949.93

DEDUCTIONS.

Balance of cash, Jan. 5, 1891,	$24,984.64	
Due from State for military aid,	8,038.00	
Amount due from State, balance of corporation taxes, 1890,	6,000.00	
Taxes collectable,	18,600.00	
Sewer taxes due,	7,500.00	
Sinking funds,	112,888.00	178,010.64
Net city debt.		$1,371,939.29

The issue of bonds of April 1, 1890, was as follows:

Sewer bonds, 4s,		$48,000.00
Improvement bonds, 4s,		25,000.00
		$73,000.00
Payment of water bonds, 7s,	$10,000.00	
Payment of water bonds, 6s,	20,000.00	
Payment of other bonds,	15,000.00	45,000.00
Increase of bonded debt,		$28,000.00
Present city debt as above,		$1,371,939.29
Net debt, Jan. 6, 1890,		1,338,574.43
Increase since Jan. 6, 1890,		$33,364.86

MUNICIPAL DEBT LIMIT.

Under chapter 312 of the acts of the legislature of 1885, entitled "An Act to Limit Municipal Debt," the limit of indebtedness of cities (exclusive of the water debt) was fixed at two and one half per cent. on the average of the assessors' valuations of the taxable property therein for the previous three years.

The following summary shows the condition of our debt from year to year since the law went into effect:

January, 1887, limit of debt,	$790,138.90
Net debt, exclusive of water,	440,077.29
Short of limit,	$350,061.61
January, 1888, limit of debt,	$801,260.00
Net debt, exclusive of water,	467,681.86
Short of limit,	$333,578.14
January, 1889, limit of debt,	$818,492.50
Net debt, exclusive of water,	555,792.89
Short of limit,	$262,699.61
January, 1890, limit of debt,	$832,529.32
Net debt, exclusive of water,	588,574.43
Short of limit,	$243,954.89
January, 1891, limit of debt,	$873,922.22
Net debt, exclusive of water,	651,939.29
Short of limit,	$221,982.93

Of the special appropriations to be provided for the present year, amounting to $143,971.65, the sum of $125,000 has been procured on temporary loan, which appears

in the debt statement above; the balance, $18,971.65, properly should be deducted from the amount stated as short of limit January, 1891, thus leaving but $203,011.28 as the amount to which we can extend our debt at this time.

From the above statement it will be plainly seen that there has been a gradual yearly decrease in the limit of our city debt since this law went into operation. With this experience before us, the tendency is obviously in the direction of a further increase in the public debt. The demands made by the rapid growth of our city call for heavy expenditures, which our citizens seem willing to sustain the administration in making. But is not this course entirely wrong? It seems to me that we ought not to allow a further increase in the present city debt, and I would recommend that the expenditures of the coming year be confined wholly to the revenue derived from the general city appropriations, the corporation taxes received from the State, the liquor licenses, etc., which in my opinion should be ample.

THE SCHOOL DEPARTMENT.

This department is one of the most important in the city, both on account of the amount of money required to maintain it, and the office it performs in preparing our youth for the duties of citizenship.

The public school system, supported and governed by the will of a free people, is an American institution in which the citizens of this great republic take an honorable and just pride, and, more, it is an institution which

guarantees the future greatness of this country by providing an intelligent constituency through general education.

The schools of New Bedford hold to-day a foremost place among the best in the State. The earnest thought of her citizens has been given in the past to their development, and the means for their support have been measured with no stinted hand. The returns have justified the time and money expended.

But, while endorsing the general policy of instruction, I would not have it forgotten that this is an eminently practical world; that the large majority of persons need to acquire those qualifications which shall enable them to cope successfully with the affairs of life, and, therefore, I would most heartily recommend the extension of that movement in the line of industrial education, which has already taken expression in the schools in form of sewing and industrial drawing.

The expenditures of this department for the past year were nearly $124,000, or about one fourth of the whole appropriation for municipal purposes. This shows its relative importance. The amount needed for school purposes each year is constantly growing, and it must necessarily continue to do so as long as the city grows and prospers. Each year several hundred pupils are added to the school population. This means new school houses or the enlarging of old ones. An enlightened public opinion has caused also the passage of a State law requiring better ventilation in school houses than has been generally provided in the past. Many of our school houses are deficient in this respect, and where the health and perhaps the lives

of our children are endangered such provision should be made as is necessary to secure for them wholesome and healthful surroundings.

The School Committee have already petitioned for a primary school building to be placed on the Kempton street lot. This building is intended to take the place of the Kempton street and the William street school houses, both of which are unfit for the needs of the pupils. A suitable school building such as is called for has long been needed in the centre of the city, and I earnestly recommend the attention of the incoming City Council to this matter. The erection of new mills in the extreme north of the city and the growth of the population in that section is already crowding the schools there. Many children are now compelled to walk an unusual distance to reach any grammar school at least and provision for another school house in that section should be made at an early date.

While making these recommendations, I am not unconscious of the necessity of restricting expenditure in this department to such limits as are consistent with a wise administration of its affairs; but I am equally conscious that such a policy as will promote the welfare of our children and improve the efficiency of the schools will meet the approval of every thoughtful citizen.

WATER WORKS.

The report of the New Bedford Water Board for the year which has just closed contains a full statement regarding the operations of that department. From this report I extract the following brief financial statement:

Dr.

Balance, Dec. 1, 1889,		$34,962.79
Total receipts from water takers,		62,687.17
Received for laying mains, services, etc.,		5,423.47
General appropriation for public use,	$12,000.00	
General appropriation from tax levy,	73,500.00	85,500.00
Total,		$188,573.43

Cr.

Management and repairs,	$30,701.31
Extension of works,	40,246.59
Interest on bonds,	43,500.00
Bonds paid,	30,000.00
Balance, Dec. 1, 1890,	44,125.53
Total,	$188,573.43

The receipts for water rates are included in the foregoing statement.

The supply during the year has been equal to all requirements and the quality has remained uniformly good.

The main distribution pipes have been extended 12,715 feet, and 4902 feet of that previously laid has been removed. The total number of miles in use at the present time is $62\frac{1}{2}$.

Considerable work has been done at the pumping station in making improvements which were necessary in order to keep that plant in proper condition to meet the growing demands of the water takers. A new chimney has been built and a large extension has been added to the coal house. It now has a storage capacity of 600 gross tons. The two oldest boilers are so much worn as to be unfitted for much service in the future. It will be necessary to replace them with new boilers in the near future.

The total consumption for the past twelve months was over 12 per cent. in excess of the amount used during 1889. The rate of increase is far in advance of the record of any previous corresponding time. The present demand requires an average daily supply of over four million gallons. There have been single days within the past year when over six million gallons were used and five million gallons per day is a very common record. A comparison of the record of 1890 with that of 1880 shows that the consumption has doubled within the ten years, while the gain in population during the same time has only been 55 per cent.

Let us seriously consider this matter, for while the supply has been abundant up to the present time, it is fast approaching the extreme limit of the capacity of the conduit leading from the storing reservoir at Long Plain to this city. Unless the rate of consumption can be prevented from further growth it will soon be absolutely necessary to expend a large sum for the placing of an additional conduit.

The total receipts from the water takers for the year ending Dec. 1, 1889, as before stated, was $62,687.17. This amount may be thus itemized:

From domestic takers,	$52,777.08
From manufacturers,	$9,704.45
From rents, repairs, etc.,	$205.64

The receipts from the manufacturers show an increase of 49 per cent. as compared with the amount received during the previous year, while the increase in the receipts from the domestic takers for the same period show an

increase of only $7\frac{2}{10}$ per cent. Statistics show that about one half of the daily consumption is used for manufacturing purposes, while the receipts from water thus supplied is a little less than one seventh of the total amount received from the water takers. The rate charged for manufacturing purposes is $2\frac{1}{2}$ cents per 1000 gallons, while the average charge of other cities is $21\frac{1}{2}$ cents. While we all desire to increase the growth and prosperity of our city by offering every reasonable inducement to all manufacturing interests to locate their establishments in this community, yet we ought not to pay these corporations a bonus for so doing. The actual cost of 1000 gallons of water delivered to any manufactory is about 10 cents. If you will examine the water reports of the past years you will easily be convinced that if our increase in population is as rapid in the next few years as it has been, then we shall be compelled to expend at least three quarters of a million of money in the placing of a new conduit.

If we can keep the supply within the present limit, we have ample accommodation for years to come. This is a very serious question and calls for a great deal of consideration on your part, for I believe that now is the time to place this matter on a sound basis. A moderate advance in the manufacturers' rate will have the tendency to accomplish a three-fold object,—it will give the department an increased revenue, thereby lessening the deficit amount collected each year in the general tax levy, and thus tend to reduce general taxation. It will tend to lessen the daily consumption, because by placing the true value upon this commodity the takers will strive to use more salt water

and less fresh water, and the use of less water will aid in the postponement of the heavy expenditures required for the construction of a new conduit.

I do not wish to be understood as advocating an exorbitant advance, but to a figure that would secure for us a fair compensation for the supply furnished. To my mind about 10 cents per thousand gallons would be a very just charge. It would then be lower than the rate charged in any other city in this vicinity. Should this be done, we might finally see our way clear to reduce the domestic rates to a somewhat lower figure.

BOARD OF PUBLIC WORKS.

By adoption of the amendment whereby at our last election we placed the mayor and president of the Council upon the Board of Public Works, the people are to be congratulated upon the wisdom manifested in their determination, as it places the mayor at the head of one of the most important municipal departments, wherein the vast expenditures of the public finance require that he should be placed in close communication with the needs of the city and the requirements of its citizens.

STREETS.

Notwithstanding large sums of money have been expended in the general improvement of our streets, public welfare demands that much more should be done in the same direction. The rapid growth of our city requires the acceptance of a number of streets, each of which will

require a large sum of money as the cost of placing it in proper condition for public travel.

There are, also, in the western section of the city, some very unsuitable street crossings, which can be improved only by the construction of sand-catchers, of which fifty-eight were during the past year placed in various localities, with the most satisfactory results.

Another subject closely related to the matter under consideration is the matter of block paving. Public sentiment seems to have become exceedingly favorable to the placing of block pavements upon the streets within the limits of the business portion of the city. While such a course must entail a large expense by reason of the first cost, I am strongly of the opinion that such a system of paving is less expensive in the end, as it involves a large saving in point of repairs and street sweeping over the expense invariably incurred in the effort to keep our unsightly cobble stones in a respectable condition.

I also recommend a system of street sweeping, which, notwithstanding the large expense necessitated in its first cost, more than repays the citizens in benefits resulting therefrom, not only with reference to public convenience, but also public health.

In this connection it may be well to consider that in view of the rapid growth of our city, and the fact that Purchase street must always continue to be one of the principal streets for the conducting of the business of our merchants and the general public, it can be but a short time before public necessity must require the widening of that street in certain places. While I am fully aware that we

are not so situated financially at the present time as to be enabled to undertake this expense, yet I do think it advisable that suitable measures should be adopted which will enable the city, in the event of new buildings being erected on the westerly side of said street from Maxfield to Elm street, to secure the land at fair compensation to the owners thereof, so that new buildings shall be so placed as to make said street of equal width between the points indicated, with its width north of Maxfield street.

This is a matter I submit to your most deliberate consideration.

SEWERS.

Probably there is no outlay of public funds so beneficial to health and comfort as the money properly expended in this department. Our sewers are at present in better condition than for years, but there is a vast amount of territory in the southerly, westerly, and northerly parts of the city which has recently been opened which will demand a large amount of money to properly drain. The sewer now draining Purchase street was only designed to drain the territory from the pumping station south, but it is now overcrowded by every heavy rainfall. To relieve this there will have to be built a sewer on Sawyer street, from Purchase street to the river, and then northerly, to drain the valley west of the railroad track. This will cost about $50,000, but as the cellars of the houses and business blocks upon Purchase street are frequently overflowed some relief seems to be an urgent demand and necessity.

While some of these recommendations properly come

within the exclusive control of the Board of Public Works, I deem it my duty to call the respective matters to your attention as being of the greatest importance.

FIRE DEPARTMENT.

The past year has been exceptionally free from serious losses by fire, owing to the efficiency of this department, the entire loss being only $18,145.02, which was more than covered by insurance.

The chief engineer recommends the purchase of a Hayes truck for the southerly part of the city, and as the department is already provided with suitable accommodations therefor at No. 6 engine house, I submit this recommendation for your consideration.

POLICE.

The police department is one of which the mayor is at the head, and upon which he depends wholly to carry out the laws as required by the statutes of the Commonwealth. Although I think as a whole we have a very efficient police force, yet I believe its efficiency depends more on the character, ability, and fidelity of its members, individually, than upon mere numbers. If each member faithfully and fearlessly performs his duty, and nothing else, the force must be efficient. Every officer, as a citizen, should exercise all his political rights, but to use his office for political purposes is not lawful and is against both his interest and that of the city, of which he is an employe. When I find neglect of duty on the part of any

officer I shall not hesitate to ask the Board to assist me in taking the proper course in the premises.

There are some repairs recommended by the chief in some of the houses. The new police signal system that is now in process of construction will probably cause a change in location of some of the stations, which can better be placed after the signal system is completed.

During the last year there have been made 1480 arrests, of which 1013 were for drunkenness, 132 for disturbing the peace, 33 for larceny, and the remainder for various offences.

STREET LIGHTS.

While our present system of lighting streets is to be commended, yet I think there is room for improvement. I refer especially to the practice of discontinuing artificial light during five or six nights in each month. It is impossible to select five whole nights in every month when it is safe to go without this light. There will be several hours, sometimes more, at others less, when there exists as great necessity for the streets to be lighted during this time as at any time during the year. This is especially true in connection with the service of our fire department. There is a corresponding length of time when our city is doubly lighted at night, that is, by natural and artificial light. Briefly stated, our city has been paying for light when not necessary, and going without the light when it was as much needed as at any time in the year. This can be remedied if a contract can be made to have light supplied when it is needed, and at no other time.

I therefore recommend that the question of lighting the streets during all dark hours be carefully considered, and measures adopted whereby the same can be accomplished.

POOR DEPARTMENT.

The expense of this department is about the same this year as last, it being about $31,000, but it will require a larger appropriation in the near future. The expense of supporting the insane in 1875 was $2486.09, and increased to $8465.83 in 1889, thereby taking about one fourth of the whole appropriation to meet this expense. But whatever the amount called for, so long as it is economically expended, it will be cheerfully granted.

In this department we have as efficient an overseer of the almshouse in Mr. Macy as any city in the Commonwealth,—a man who gives all his time and attention to the interests of the poor placed under his charge, and at the same time looking to the best interest of the city.

CEMETERIES.

Although I think we are all of opinion that our cemeteries should be so conducted as to reflect the highest credit upon our city, for liberality and becoming respect for the memory of the dead, yet we must consider that there has been expended in connection therewith, during the past four years, more money than had been expended during the previous thirteen years. While, therefore, we will be obliged to exercise the most strict economy, yet I hope the good work will go on, and recommend that two

suitable structures, one in each cemetery, be erected for use in case of inclement weather, for which I am of opinion there is an urgent demand.

PUBLIC BATHS.

With the facilities which New Bedford possesses by reason of its extensive frontage upon our harbor, it would seem wise to provide bathing houses where the public may enjoy the healthful and invigorating effects of salt water bathing without being exposed to arrest for violation of law. I would, therefore, heartily recommend that the matter of public bathing houses receive your attention, and suitable accommodations therefor provided, should it appear expedient so to do after a proper investigation of the subject.

PUBLIC PARKS.

We can have no more convincing proof of the general sentiment of our people in favor of additional public parks than has been shown by the large and nearly unanimous vote in favor of accepting the recent act of the legislature relating to public parks, and, inasmuch as questions of law have arisen concerning the acceptance of the act, and as there is also an apparent conflict between the provisions of this act and the earlier act creating the Board of Public Works as to the proper method of determining the constitution of the Board of Park Commissioners, I recommend the appointment of a committee to secure such further legislation as may obviate the difficulties which will otherwise arise from existing doubts as to the proper construction of the law.

LIQUOR LICENSES.

By a majority vote of the people at the last election, and after a most complete discussion of the question with reference to the moral effects thereof, as well as of the material benefits or otherwise resulting therefrom, they decided that the city grant licenses for the sale of intoxicating liquors for the ensuing license year. This is a very important matter, and I wish to impress it upon you that we should grant these licenses, independently and fearlessly of party considerations or factional clamor. to men whom we know to be responsible parties, men who will live up to their agreement—for it is nothing but an agreement between the city on the one hand and the licensee upon the other, each to fulfill his part of the contract.

I wish to say emphatically that with your combined assistance I will enforce that agreement on the part of the city, and the licensees must perform it upon their part.

CONCLUSION.

With the foregoing impartial review of the city's requirements, I leave them with you, assured that her interests are safe in your trusted keeping. Although some of us enter upon our duties with more or less experience, yet I would urge upon you the careful study of the different reports of each department, from which alone can be gained that knowledge which is so essential to intelligent legislation. We shall meet constant requests for improvements, and the demands on our resources will be

large. Let us see to it, in so far as our official capacities lie, that with due regard to strict economy, our beloved city does not fall behind in the progressive march of the day. I shall arrange such hours for and devote as much time to the affairs of the city as its interests demand, and in all your desires and undertakings you may rely on me for hearty coöperation to the best of my judgment.

CITY GOVERNMENT

1891.

MAYOR.

HON. CHARLES S. ASHLEY.

ALDERMEN.

Ward 1—JOHN WING.
Ward 2—HENRY C. HATHAWAY.
Ward 3—WENDELL H. COBB.
Ward 4—STEPHEN A. BROWNELL.
Ward 5—JAMES DELANO.
Ward 6—EZEKIEL C. GARDINER.

CITY CLERK.

DANIEL B. LEONARD.

CITY TREASURER AND COLLECTOR OF TAXES.

JAMES H. HATHAWAY.

CITY AUDITOR.

WILLIAM B. TOPHAM.

CITY MESSENGER.

AUGUSTUS D. PIPER.

COMMON COUNCIL.

PRESIDENT — JOSEPH DAWSON.

Ward One.

JOSEPH DAWSON,
FRANK B. CARR,
PETER F. SULLIVAN,
JOSEPH CHAUSSÉ.

Ward Two.

LOUM H. FAUNCE,
WILLIAM HINDLE,
JAMES McFARLIN,
STEPHEN B. WILBER.

Ward Three.

JOHN A. GOMLEY,
JOHN H. BARROWS,
LEMUEL W. HAYES,
HENRY L. KING.

Ward Four.

WILLIAM G. KIRSCHBAUM,
CHARLES H. VINAL,
ISAAC S. BUSHNELL,
GEORGE D. RICHARDS.

Ward Five.

ELIOT D. STETSON,
JAMES A. TAYLOR,
EDWARD S. HASKELL,
ISAAC L. ASHLEY.

Ward Six.

WILLIAM H. RANKIN,
GEORGE W. PARKER,
MARTIN P. FICHTENMAYER,
THOMAS J. MEANEY.

CLERK — WILLIAM A. MACKIE.

STANDING COMMITTEES OF THE BOARD OF MAYOR AND ALDERMEN.

Police—The Mayor, and Aldermen Hathaway and Delano.
Licenses—Aldermen Brownell, Cobb, and Gardiner.
Streets—Aldermen Wing, Delano, and Cobb.
Burial Grounds—Aldermen Gardiner, Wing, and Hathaway.
Enrollment—Aldermen Cobb, Brownell, and Delano.
Soldiers' Aid—The Mayor, and Aldermen Gardiner and Wing.

JOINT STANDING COMMITTEES OF THE CITY COUNCIL.

Finance—The Mayor, Alderman Cobb, the President of the Common Council, and Councilmen Wilber, King, Vinal, Taylor, and Parker.

Audit—Aldermen Hathaway and Delano, and Councilmen Rankin, Barrows, and Richards.

City Property—Aldermen Delano and Brownell, and Councilmen Kirschbaum, Parker, and Haskell.

Fuel—The Mayor, Alderman Hathaway, and Councilmen Carr, Meaney, and Bushnell.

Education—Aldermen Hathaway and Brownell, and Councilmen Kirschbaum, Barrows, and Chaussé.

Fire Department—Aldermen Wing and Gardiner, and Councilmen Sullivan, Gomley, and Rankin.

Roads, Bridges, and Sewers—Aldermen Delano and Cobb, and Councilmen Faunce, McFarlin, and Fichtenmayer.

Charities, Almshouse, and the Poor—Aldermen Delano and Wing, and Councilmen Haskell, Hayes, and Hindle.

Street Lights—Aldermen Brownell and Cobb, and Councilmen Gomley, Carr, and Hindle.

Printing—Alderman Wing, and Councilmen Stetson and Richards.

Buildings in the Fire District—Aldermen Gardiner and Hathaway, and Councilmen Sullivan, Faunce, and Meaney.

Armory and Military Property—Aldermen Gardiner and Wing, and Councilmen McFarlin, Ashley, and Chaussé.

Water Works and Water Supply—Aldermen Cobb and Brownell, and Councilmen Parker, Fichtenmayer, and Ashley.

Claims—Aldermen Cobb and Brownell, and Councilmen Taylor, Stetson, and Hayes.

Ordinances—Aldermen Hathaway and Wing, and Councilmen Vinal, King, and Bushnell.

STANDING COMMITTEES OF THE COMMON COUNCIL.

Elections and Returns—Councilmen Carr, Rankin, and McFarlin.

Bills in Second Reading—Councilmen Kirschbaum, Faunce, and Wilber.

Enrolled Ordinances and Resolutions—Councilmen Gomley, Barrows, and Sullivan.

ASSESSORS.

Office, Library Building, Room 6.

CHARLES D. TUELL, Chairman, 2 years.
JOHN A. RUGGLES, 3 years. WILLIAM A. RUSSELL, 1 year.

ASSISTANT ASSESSORS.

Ward 1—JAMES SLATER.
Ward 2—ARTHUR B. CHAPPELL.
Ward 3—HENRY C. RUSSELL.
Ward 4—MARSHALL T. MILLS.
Ward 5—JOHN D. RODGERS.
Ward 6—FRANK PAUL.

BOARD OF HEALTH.

Office, City Hall Building.

WILLIAM N. SWIFT, Term expires February, 1892.
THOMAS W. COOK, Term expires February, 1892.
NATHANIEL HATHAWAY, Term expires February, 1893.

NATHANIEL HATHAWAY, Chairman.

WILLIAM N. SWIFT, City Physician and Quarantine Physician.

The City Physician is *ex officio* a member of the Board.

HEALTH INSPECTOR.

WILLIAM E. MACOMBER.

INSPECTOR OF PLUMBING.

LOUIS H. RICHARDSON.

NEW BEDFORD WATER WORKS.

NEW BEDFORD WATER BOARD.

His Honor CHARLES S. ASHLEY, Mayor, *ex officio* President.
JOSEPH DAWSON, President of the Common Council, *ex officio*.
DAVID B. KEMPTON, Term expires June, 1892.
WILLIAM N. CHURCH, Term expires June, 1893.
HENRY HOWARD, Term expires June, 1894.

CLERK.

ROBERT C. P. COGGESHALL.

WATER REGISTRAR.

JAMES H. HATHAWAY.

Office, Room 2, Library Building.

SUPERINTENDENT.

ROBERT C. P. COGGESHALL.

City Hall Building.

INSPECTOR.

CLIFFORD BAYLIES.

Office, Room 2, Library Building.

COMMISSIONERS OF SINKING FUND.

WILLIAM H. MATHEWS, Term expires March, 1892.
MORGAN ROTCH, Term expires March, 1893.
J. AUGUSTUS BROWNELL, Term expires March, 1894.

WILLIAM H. MATHEWS, Chairman.

JAMES H. HATHAWAY, Secretary and Treasurer.

OVERSEERS OF THE POOR.

ORRICK SMALLEY,	Term expires May 1, 1892.
THOMAS H. KNOWLES,	Term expires May 1, 1893.
JAMES E. STANTON,	Term expires May 1, 1894.

Secretary—ORRICK SMALLEY.
Assistant—ELLA F. BUCKLIN.
Supt. of Almshouse—PELEG S. MACY.
Physician—JOHN T. BULLARD.

FREE PUBLIC LIBRARY.

TRUSTEES.

Ex officio. Term expires January, 1892.

CHARLES S. ASHLEY, Mayor of the City.
JOSEPH DAWSON, President of the Common Council.
HENRY C. HATHAWAY, Alderman, and Chairman of the Committee of the City Council on Education.

Elected by the City Council.

ARTHUR G. GRINNELL,	Term expires April, 1892.
LEONARD B. ELLIS,	Term expires April, 1892.
GEORGE H. DUNBAR,	Term expires April, 1893.
GEORGE HOWLAND, JR.,	Term expires April, 1893.
ISAAC B. TOMPKINS, JR.,	Term expires April, 1894.
MATTHEW C. JULIEN,	Term expires April, 1894.

PRESIDENT OF THE BOARD.

THE MAYOR.

CLERK.

GEORGE H. DUNBAR.

COMMITTEES.

On the Library—The Mayor, and Messrs. Howland, Dawson, and Julien.
On the Building—Messrs. Tompkins, Hathaway, and Ellis.
On Binding and Blanks—Messrs. Dunbar and Grinnell.

SUPERINTENDENT OF THE LIBRARY.

GEORGE H. DUNBAR.

LIBRARIAN.

ROBERT C. INGRAHAM.

ASSISTANT LIBRARIAN.

WILLIAM L. R. GIFFORD.

ASSISTANTS.

JOSEPHINE A. MERRICK, MARY E. BROWN,
SUSIE H. GAMMONS.

JANITOR.

YORICK W. AMES.

BOARD OF PUBLIC WORKS.

Office, Odd Fellows Building.

His Honor CHARLES S. ASHLEY, Mayor, *ex officio* Chairman.
JOSEPH DAWSON, President of the Common Council, *ex officio*.

MORGAN ROTCH,	Term expires May 1, 1892.
THOMAS B. TRIPP,	Term expires May 1, 1893.
GEORGE F. BARTLETT,	Term expires May 1, 1894.

DANIEL B. LEONARD, Clerk.
ALBERT B. DRAKE, Superintendent.

SUPERINTENDENT OF BRIDGE, AND DRAW TENDER.

JOHN B. NICHOLSON.

CITY SOLICITOR.

THOMAS F. DESMOND.

SUPERINTENDENT OF BURIAL GROUNDS.

STEPHEN D. PEIRCE.

Office at Ashley & Peirce's, 72 and 74 William street.

SEALER OF WEIGHTS AND MEASURES.

WILLIAM R. SHERMAN.

INSPECTOR OF BUILDINGS.

FREDERICK MACY.

SUPERINTENDENT OF CITY CLOCK.

SMALL & WOODWORTH.

CITY BELL RINGER.

ISAAC BARNES.

CITY LAND SURVEYOR.

ALBERT B. DRAKE.

HARBOR MASTER.

HENRY L. PITMAN.

INSPECTOR OF PETROLEUM AND VINEGAR.

HARRISON DELANO.

Office, No. 17 Middle street.

INSPECTOR OF MILK, PROVISIONS, AND ANIMALS INTENDED FOR SLAUGHTER.

DANIEL C. ASHLEY.

Office, No. 46 North Second street.

SUPERVISOR OF WIRES.

DANIEL D. BRIGGS.

REGISTRARS OF VOTERS.

EMANUEL SULLAVOU, Term expires May, 1892.
HERBERT A. BLACKMER, Term expires May, 1893.
CHARLES J. McGURK, Term expires May, 1894.
DANIEL B. LEONARD, City Clerk, *ex officio.*

Office, Basement, City Hall Building.

PRECINCT OFFICERS.

Term of office expires Nov. 1, 1891.

WARD 1, PRECINCT 1.

Warden, WILLIAM J. ARRIGAN, D.
Clerk, WILLIS L. HATHAWAY, R.
Inspector, WILLIAM J. HOYLE, D.
" JOHN F. KIRK, R.
" JOSEPH H. SULLIVAN, D.
" EDGAR H. GAMMONS, R.

Deputies.

Warden, MAURICE C. DAHILL, D.
Clerk, CLIFFORD P. SHERMAN, R.
Inspector, EDWARD M. MURPHY, D.
" JAMES H. BAMFORD, R.
"
" ALBERT W. MOORE, R.

WARD 1, PRECINCT 2.

Warden, GEORGE P. MACOMBER, R.
Clerk, JOHN N. O'BRIEN, D.
Inspector, GEORGE B. BORDEN, R.
" DANIEL J. SULLIVAN, D.
" GEORGE E. SAXON, R.
" DANIEL F. DRISCOLL, D.

Deputies.

Warden,
Clerk,
Inspector, JAMES H. SAXON, R.
"
" EDWIN S. WHITTAKER, R.
"

WARD 2, PRECINCT 3.

Warden, DAVID B. PEIRCE, D.
Clerk, MYRON W. BROWNELL, R.
Inspector, GEORGE T. HADLEY, D.
" STEPHEN HAFFORD, JR., R.
" HENRY FIELD, JR., D.
" THOMAS C. ROBBINS, R.

Deputies.

Warden, CHARLES A. CASE, D.
Clerk, CHARLES T. BURGESS, R.
Inspector,
" CHARLES L. FAUNCE, R.
"
" ARTHUR A. DEXTER, R.

WARD 2, PRECINCT 4.

Warden, GEORGE K. DAMMON, R.
Clerk, J. FRANKLIN KEENE, D.
Inspector, DAVID S. SMALL, R.
" JOSEPH P. H. CLARK, D.
" SAMUEL R. BROWNELL, R.
" ASA L. H. ALLEN, D.

Deputies.

Warden, STEPHEN F. ADAMS, R.
Clerk, HENRY SMITH, D.
Inspector, PHILIP R. KING, R.
" JAMES F. CARROLL, D.
" EDGAR R. LEWIS, R.
" CHARLES L. CHURCH, D.

WARD 3, PRECINCT 5.

Warden, JOSHUA B. ASHLEY, JR., D.
Clerk, JAMES D. ALLEN, R.
Inspector, HENRY F. HAMMOND, D.
" WILLIAM T. CASWELL, R.
" JOHN NOTTER, D.
" RUFUS H. WILLIS, R.

Deputies.

Warden, EDWARD F. McKOWEN, D.
Clerk,
Inspector, CHARLES T. LUCE, D.
"
" PATRICK J. BARRETT, D.
" LYCURGUS H. HOWLAND, R.

WARD 3, PRECINCT 6.

Warden, ALBERT H. W. CARPENTER, D.
Clerk, B. FRANKLIN WORDELL, R.
Inspector, CHARLES W. HOWLAND, D.
" BENJAMIN F. JENNEY, R.
" K. CLIFTON TERRY, D.
" EDWARD T. SHERMAN, R.

Deputies.

Warden, EDWARD S. RUSSELL, D.
Clerk, CHARLES L. PAINE, R.
Inspector,
" THOMAS H. FORBES, R.
" PATRICK J. BARRETT, D.
" WILLIAM E. CARROLL, R.

WARD 4, PRECINCT 7.

Warden, WILLIAM B. TOPHAM, R.
Clerk, WALTER R. MYRICK, D.
Inspector, AUGUSTUS D. PIPER, R.
" GEORGE P. GIFFORD, D.
" MARSHALL T. MILLS, R.
" GEORGE S. HOYT, D.

Deputies.

Warden, JAMES B. RUSSELL, R.
Clerk, WILLIAM L. R. GIFFORD, D.
Inspector, FRED D. BARROWS, R.
" GEORGE R. YOUNG, D.
" HORACE TILDEN, R.
" GEORGE M. WOOD, D.

WARD 5, PRECINCT 8.

Warden, ROBERT G. TOBEY, D.
Clerk, JOHN K. McAFEE, R.
Inspector, GEORGE P. RICHARDSON, D.
" ARTHUR C. SPOONER, R.
" ISAAC C. SHERMAN, D.
" ROBERT R. TOPHAM, R.

Deputies.

Warden, WILLIAM H. SHERMAN, D.
Clerk, ALBION T. BROWNELL, R.
Inspector, THOMAS J. PEED, D.
" ORRICK SMALLEY, JR., R.
"
" GEORGE F. COLE, R.

WARD 5, PRECINCT 9.

Warden, HENRY S. SWAIN, R.
Clerk, HENRY A. GRAY, D.
Inspector, DAVID M. PIPER, R.
" WILLIAM C. KENNEDY, D.
" FREDERICK B. COOK, R.
" CHARLES S. BAYLIES, D.

Deputies.

Warden, FRANCIS A. BOOTH, R.
Clerk,
Inspector, JOHN C. EMORY, R.
" ARTHUR E. DUFFEY, D.
" JAMES H. MAGNETT, R.
" JAMES LOWE, JR., D.

WARD 6, PRECINCT 10.

Warden, CHARLES F. BRIGGS, R.
Clerk, LEANDER A. WILLISTON, D.
Inspector, GEORGE F. CURRY, R.
" FRANK CROACHER, D.
" WILLIAM F. CASWELL, R.
" FRANK P. P. TUELL, D.

Deputies.

Warden,
Clerk, JOHN W. DONAGHY, D.
Inspector, GEORGE F. SAWIN, R.
"
" ROLAND R. ASHLEY, R.
" FRANK G. TABER, D.

WARD 6, PRECINCT 11.

Warden, HERBERT B. GARDNER, R.
Clerk, N. HERBERT GREENE, D.
Inspector, WILLIAM W. BONNEY, R.
" WILLIAM N. NELSON, D.
" AMOS W. HADLEY, R.
" GIDEON D. POPPLE, D.

Deputies.

Warden, MARSHALL S. GREENE, R.
Clerk,
Inspector, HARRY C. VAUGHAN, R.
" CHARLES A. SERPA, D.
" ANDERSON H. SWIFT, R.
" GEORGE L. JENNINGS, D.

VOTING PRECINCTS.

WARD ONE.

Precinct 1. All that portion of said ward lying northerly of a line drawn through the centre of Cedar Grove, Purchase, Linden, Ashland, and Durfee streets, thence continuing in a straight line to the boundary line between the town of Dartmouth and the city of New Bedford.

Voting place, Ward room, corner of Weld and Bowditch streets.

Precinct 2. All that portion of said ward lying southerly of the aforesaid division line.

Voting place, Howland Chapel, 588 Purchase street.

WARD TWO.

Precinct 3. All that portion of said ward lying east of a line drawn through the centre of Thomas, Sycamore, and County streets, to a point at the intersection of a line formed by the extension of a line through the centre of Franklin street.

Voting place, Ward room on Willis street.

Precinct 4. All that portion of said ward lying west of the aforesaid division line.

Voting place, carpenter shop of Loum H. Faunce, rear of 63 Parker street.

WARD THREE.

Precinct 5. All that portion of said ward lying east of a line drawn through the centre of Summer street, from the centre of Middle to the centre of Maxfield street.

Voting place, Ward room, Kempton street, near County.

Precinct 6. All that portion of said ward lying west of aforesaid division line.

Voting place, northwest corner Hillman and Ash streets.

WARD FOUR.

Precinct 7. The entire ward, including the islands known and called Pope's and Fish island.

Voting place, City Hall.

WARD FIVE.

Precinct 8. All that portion of said ward lying easterly of a line drawn through the centre of Fifth street, from the centre of Wing street to the centre of Bedford street, thence through Bedford and South Sixth streets to the centre of Spring street.

Voting place, Ward room on Fourth street, near School.

Precinct 9. All that portion of said ward lying westerly of the aforesaid division line.

Voting place, No. 4 engine house, Bedford street.

WARD SIXTH.

Precinct 10. All that portion of said ward lying easterly of a line drawn through the centre of Fifth street, from its intersection with the centre of Wing street, thence through Grinnell, Fourth, and Rivet streets, Acushnet avenue, Division, and Water streets, to and along the centre of French avenue south to tide water.

Voting place, store southwest corner South and South Water streets.

Precinct 11. All that portion of said ward lying westerly of the aforesaid division line.

Voting place, Ward room on Sherman street.

FIRE DEPARTMENT.

CHIEF ENGINEER.

FREDERICK MACY, Term expires January, 1893.

Office, City Hall Building.

ASSISTANT ENGINEERS.

First—LORING T. PARLOW,	Term expires January, 1895.
Second—PLINY B. SHERMAN,	Term expires January, 1894.
Third—AUGUSTUS A. WOOD,	Term expires January, 1893.
Fourth—HUGH McDONALD,	Term expires January, 1892.

CLERK OF BOARD OF ENGINEERS.

LUTHER G. HEWINS, JR.

POLICE DEPARTMENT.

CHIEF.

DANIEL A. BUTLER.

CAPTAINS.

LUTHER M. DAYTON, JAMES L. WILBER.

LIEUTENANTS.

LEMUEL D. ADAMS, THOMAS W. COMSTOCK,
TIMOTHY C. ALLEN, FREDERICK HUSSEY,
SETH E. BRYANT, ELLERY PEIRCE,
THOMAS J. TAFT.

HEALTH INSPECTOR.

WILLIAM E. MACOMBER.

INSPECTORS.

FRANKLIN L. HATHAWAY, JOHN C. PARKER.

PATROLMEN.

EDGAR W. ALLEN, JAMES MITCHELL,
HENRY ARNETT, WILLIAM H. MITCHELL,
JAMES W. ARNETT, LEWIS S. MOORE, JR.,
JOHN W. BRADY, ROBERT MOYNAN,
MILTON A. BROWNELL, CORNELIUS J. MURPHY,
PATRICK CANNAVAN, GEORGE W. PAIGE,
THOMAS DAHONEY, H. WARREN RHODES,
PETER DUMEC, JOHN C. BROOKS,
WASHINGTON A. ELDRIDGE, WILLIAM E. ROSCOE,
THOMAS FAY, JOHN SAVAGE,
CHARLES C. GIFFORD, JOSEPH DE L. SISSON,
GEORGE E. GENDRON, TIMOTHY SULLIVAN,
JOHN HERNON, DANIEL P. SWEENEY,
DANIEL J. HUMPHREY, CHARLES H. TABER,
JAMES A. IVEY. JEREMIAH M. TABER,
ARTHUR H. JONES, JOHN TELFORD,
PATRICK KENNEDY. GEORGE VOGEL,
ALLEN L. LEE, JOHN H. WILLIAMS,
JOSEPH MATHER, THOMAS H. WILSON,
CHARLES L. McBAY, JOSEPH B. WING,
JAMES A. WIXON.

DAY HOUSE KEEPERS.

HENRY W. BUMPUS. DAVID G. KIRBY,
ELISHA E. RUSSELL,

NIGHT HOUSE KEEPERS.

ISAAC M. JONES, CHARLES H. ROBBINS,
JOHN B. MANCHESTER, HENRY STEVENS.

CLERK OF POLICE DEPARTMENT.

HENRY N. WEST.

POLICE MATRON.

MARGARET S. BULLARD.

POLICE SIGNAL SERVICE.

Wagon Men.

JAMES DOWDEN, JOHN M. JONES.

Drivers Patrol Wagon.

EDWARD F. JENNINGS, JOHN D. SULLIVAN.

CONSTABLES.

THE MEMBERS OF THE POLICE FORCE, AND
SAMUEL C. PERRY.

KEEPER OF THE LOCKUP.

DANIEL A. BUTLER.

PROBATION OFFICER.

ISAAC H. COE.

SPECIAL POLICE OFFICERS.

Allen, Lewis G.,	Buckley, Alfred R.,	Corish, John,
Allen, William H.,	Burgess, Stephen,	Corley, Maurice C.,
Andrews, Charles O.,	Burke, Michael I.,	Cornell, Charles F.,
Austin, John H. C.,	Burke, William,	Cornell, Sidney I.,
Barber, John R.,	Butts, Henry R., Jr.,	Cornell, Stephen,
Barker, Robert T.,	Butts, Squire W.,	Crafts, James,
Barnes, Isaac,	Carr, James E.,	Cronin, Cornelius,
Bartel, Leopold,	Carson, C. J. R.,	Cushman, Frederick,
Bennett, Jeremiah H.,	Chase, Albert A.,	Dammon, George K.,
Bentley, Frank T.,	Childs, Cyril M.,	Davis, Otis A.,
Bliss, Frederick P.,	Clark, William,	Delano, Harrison,
Bliss, William H.,	Clarkson, Nicholas J.,	Devine, Patrick,
Booth, Benjamin T.,	Clynes, Thomas,	Devoll, George H.,
Borden, Prince S.,	Collins, John,	Donaghy, Joseph,
Brown, William L. G.,	Conklin, Abraham,	Duckworth, William A.,

Duffy, Thomas,
Durfey, Richard T.,
Eldredge, Samuel T.,
Engeland, George,
Etchell, Edward,
Ferguson, William,
Finn, Michael,
Fitzgerald, James,
Flavin, Maurice F.,
Francis, Frank W.,
Fuller, Jonathan A.,
Geddis, Henry S.,
Gibbs, Preston H.,
Gibbs, William H. H.,
Gifford, John,
Glennon, Thomas F.,
Grant, Lafayette,
Greene, Marshall S.,
Harrington, J., Clark st.,
Hillman, George W.,
Hines, Henry S.,
Holden, George,
Holloway, James T.,
Holmes, Ezra,
Holmes, John J.,
Howard, Henry,
Howland, Joseph B.,
Howland, William G.,
Jay, James A.,
Jenney, Ezra T.,
Johnson, Oscar,
Johnson, W. H., Smith street,
Jones, Isaac M.,
Jordan, William,
Joseph, John,
Karcher, Frederick, Sr.,
Kelley, Hiram C.,
Kennedy, Thomas,
Kent, James D. T.,
King, Joseph T.,
Lapham, George W.,
Law, Peter G.,
Lawrence, Cyrus T.,
Leary, Dennis, Jr.,
Lincoln, Ellery C.,
Lincoln, John,
Little, Frank,
Little, John E.,
Lumbert, John,
Luther, Joseph P.,
McCullough, Robert,
McDermot, Michael,
Macomber, H. M.,
Marr, William J.,
Marshall, Charles A.,
Martin, Henry T.,
Maxfield, Russell,
Mehan, John,
Miller, George,
Miskell, John,
Morgan, Elias T.,
Morrison, Thomas,
Netcher, George F.,
Nicholson, John B.,
Oliver, John,
Omey, Joseph C.,
Palmer, Robert,
Parker, Charles W.,
Partington, William,
Peckham, Samuel W.,
Peed, Thomas J.,
Peirce, Anthony, Jr.,
Perry, Samuel C.,
Phillips, Henry T.,
Pierce, Thomas H.,
Pinelle, Joseph,
Pinkham, George W.,
Piper, Augustus D.,
Pitman, Henry L.,
Place, William J ,
Pollock, John H.,
Quinn, Joseph,
Read, George P.,
Read, Richard A.,
Remington, John G.,
Reynolds, James R.,
Richie, David,
Robbins, Charles H.,
Russell, Henry C.,
Russell, James B.,
Sadler, William G.,
Salmon, John,
Sampson, Warren W.,
Saxon, James H.,
Shea, Michael J.,
Shields, Charles M.,
Small, David S.,
Smith, Henry,
Smith, Henry H.,
Spicer, Robert H.,
Spooner, Joseph W.,
Staples, Elias,
Stevens, Michael,
Stopford, James I.,
Sullivan, John D.,
Taber, Charles H.,
Taber, Christopher C.,
Taber, Gideon L.,
Taber, William H.,
Taft, Daniel F.,
Tallman, Edward S.,
Taylor, Theodore,
Taylor, William A.,
Thomas, Edward, Jr.,
Thompson, Thomas,
Thomson, John H.,
Tinkham, John S.,
Tinkham, Otis,
Townley, Richard,
Tripp, Benjamin E.,
Tripp, Holder R.,
Tripp, Le Roy G.,
Tuell, Charles D.,
Underwood, John A.,
Underwood, Willis C.,
Warfield James H.,
Watts, William H. C.,
Weeden, Charles H. L.,
Wilbur, Allen R.,
Wiley, James,
Willis, Rufus H.,
Williston, Hiram L.,
Wilson, John,
Wood, Charles N.,
Wood, James A.

MEMBERS OF THE NEW BEDFORD PROTECTING SOCIETY.

(*Special Police Officers to serve at fires.*)

Akin, Francis T.,
Allen, George H. H.,
Allen, Gideon, Jr.,
Allen, Gilbert,
Bamford, William,
Boardman, Thomas,
Bourne, Standish,
Bly, O. Frank,
Briggs, George E.,
Case, Charles A.,
Coggeshall, R. C. P.,
Cornish, Clifton H.,
Denison, Henry C.,
Denison, John H.,
Dews, Edwin,
Dias, Joseph,
Dunham, Ernest A.,
Field, Walter F.,
Gardner, Edward R.,
Gibbs, John E.,
Gifford, Charles H.,
Gifford, Frank H.,
Grinnell, Edmund,
Hadley, A. W.,
Hammond, Henry F.,
Handy, Jonathan,
Haskell, Charles M.,
Holden, Charles H.,
Howard, Henry,
Howland, John J.,
Hussey, Charles M.,
Kelley, Charles S.,
Kingman, G. D.,
Knowles, Thomas H.,
Lawton, Charles H.,
Lewis, Edgar R.,
Lowe, John H.,
Manchester, P. F.,
Maxfield, Edmund F.,
Nye, Willard, Jr.,
Paine, Charles L.,
Parker, James N.,
Peirce, Stephen D.,
Perry, Arthur E.,
Phillips, George A.,
Pierce, Edward T.,
Pierce, Otis N.,
Pitman, William H.,
Potter, William F.,
Read, William F.,
Robbins, Arthur E.,
Robinson, William A.,
Rotch, Morgan,
Richardson, Louis H.,
Russell, William A.,
Sanford, Gardner T.,
Sawin, Frank E.,
Shaw, Edward S.,
Snow, Robert,
Swift, Frederick,
Swift, Leander H.,
Swift, R. W.,
Taber, Charles M.,
Taylor, Henry W.,
Taylor, William T.,
Thornton, Alfred,
Vincent, Mark T.,
Washburn, F. A.,
West, William R.,
Wilbor, Alfred G.,
Wilde, Edmond L.,
Willis, William H.,
Wood, Edmund,
Wood, Horace,
Wood, Thomas F.

MEASURERS OF WOOD AND BARK.

Allen, Abram A.,
Ashley, Roland R.,
Bennett, William H.,
Browning, Edwin E.,
Chace, Charles S.,
Chace, Ira M.,
Comey, Charles M.,
Cobb, George A.,
Cornell, Solomon C.,
Coxen, Charles H.,
Dammon, Samuel,
Davis, John,
Flood, James R.,
Gibbs, John E.,
Grinnell, A. B., Jr.,
Hathaway, John G.,
Holmes, Albert W.,
Howland, Abraham H.,
Lawrence, James A.,
Leavitt, Clark,
Moulton, Frederick F.,
Notter, John,
Pickens, George,
Potter, Edwin L.,
Reed, Benjamin H.,
Russell, William H.,
Rodman, Frank P.,
Stafford, George B.,
Smith, John,
Sylvia, Joseph L., Jr.,
Taber, Edward C.,
Tripp, Augustus C.,
Weeks, Henry T.,
Wordell, Wilson I.

SURVEYORS OF LUMBER.

Beetle, John H.,
Carpenter, George H.,
Chase, Abraham,
Croacher, Thomas W.,
Hayes, Lemuel W.,
Lawrence, James A.,
Howland, John W.,
Randall, Charles G.,
Randall, George A.,
Raymond, Hiram,
Russell, William H.,
Sowle, Nathaniel P.

MEASURERS OF GRAIN.

Chace, Ira M.,
Comey, Charles M.,
Horton, Charles M.,
Rodman, Frank P.

WEIGHERS OF COAL.

Bowman, Fred G.,
Buchanan, James,
Chace, Ira M.,
Comey, Charles M.,
Corson, James A.,
Day, Thomas,
Gifford, Charles H.,
Gifford, Nathaniel W.,
Hathaway, Franklin,
Hathaway, John G.,
Hunt, Josiah,
Lindsey, Robert,
Lumbard, Joseph W.,
Negus, A. S.,
Neal, John A.,
Percy, T. A.,
Pierce, Edward E.,
Reed, Edmund A.,
Rodman, Frank P.,
Rose, Antone J.,
Shurtleff, Lewis T.,
Smith, John,
Stevens, Dennis L.,
Tripp, Jabez A.,
Tripp, John E.,
Weeks, James H.,
Wilbur, A. R.,
Wilson, Wallace B.,
Wordell, Wilson I.

CITY WEIGHERS.

Almy, Allen,
Ashley, Clara M.,
Ashley, Roland R.,
Barritto, Joseph,
Boyle, John M.,
Buchanan, James,
Burgess, James,
Burgess, Thomas,
Chace, Ira M.,
Chace, Albert A.,
Channing, Walter J.,
Comey, Charles M.,
Congdon, William A.,
Corson, James A.,
Craft, James,
Davis, James.
Day, Thomas,
Delano, Harrison,
Doe, George F.,
Drew, George,
Drew, Phineas F.,
Driscoll, Daniel E.,
Donovan, John,
Duff, John,
Edwards, Charles F.,
Eldridge, Howard,
Fields, Walter G.,
Gibbs, J. Edward, Jr.,
Gibbs, William H. H.,
Gifford, Charles H.,
Gifford, James A.,
Gifford, John F.,
Gifford, Nathaniel W.,
Gifford, Richmond A.,
Gifford, Robert B.,
Grant, Lafayette R.,
Haskell, Frank C.,
Hassett, James,
Hathaway, B. F., Jr.,
Hathaway, Franklin,
Hathaway, James L.,
Hathaway, John G.,
Hayden, Edward D.,
Hitch, Frank B.,
Horton, Charles M.,
Howard, Henry,
Howland, Cyrus E.,
Howland, Edward S.,
Hunt, Josiah,
Jay, Walter F.,
Jenney, Ezra T.,
Jennings, George L.,
Jewett, Charles A.,
Kenney, Edward D.,

Kilpatrick, Edward F.,
Kilpatrick, Robert,
Lawton, Robert S.,
Lee, John A.,
Lewis, Henry S.,
Lincoln, Harry H.,
Lumbard, Joseph W.,
Macomber, Harry T.,
Macy, Peley S.,
Manchester, Caleb,
Marra, William H.,
Mason, Frederick A.,
Mulberrry, William H.,
Neal, John A.,
Negus, A. S.,
O'Connor, Cornelius,
Paul, George H.,
Pedro, George E.,
Peirce, H. M.,
Peirce, Edward E.,
Perry, Frank T.,
Perry, John S.,
Potter, Edwin L.,
Reed, Benjamin H.,
Reed, Edmund A.,
Rodman, Frank P.,
Sherman, Edward R.,
Shurtleff, Lewis T.,
Sisson, Frank E.,
Taft, Daniel F.,
Traverse, Charles I.,
Tripp, Jabez D.,
Tripp, John E.,
Vierick, Louis A.,
Weeks, Henry T.,
Wilbur, Allen R.,
Wilcox, Frank S.,
Wilson, Wallace B.,
Wood, Henry L.,
Wood, John,
Wordell, Wilson I.

WEIGHERS OF BOILERS AND HEAVY MACHINERY.

Howard, Henry,
Sisson, William H. H.,
Smith, John,
Stone, Walter A.

FENCE VIEWERS.

Cobb, George A.,
Russell, John A.

POUND KEEPERS.

Manchester, John B.,
Scott, Henry,
Stevens, Henry,
Stevens, Michael.

FIELD DRIVERS.

The Police, William H. Johnson (Smith st.), John B. Manchester, Henry Stevens, and Michael Stevens.

1890 — CITY DOCUMENT No. 3.

TWENTY-FIRST ANNUAL REPORT

OF THE

NEW BEDFORD WATER BOARD,

TO THE

City Council,

CONTAINING:

I.

The Report of the New Bedford Water Board for the Year 1890.

II.

The Report of the Water Registrar.

III.

The Report of the Superintendent.

DECEMBER 29, 1890.

NEW BEDFORD:
MERCURY PUBLISHING COMPANY, PRINTERS TO THE CITY.
1891.

New Bedford Water Board.

1891.

CHARLES S. ASHLEY,

Mayor of the City.

JOSEPH DAWSON,

President of the Common Council.

HENRY HOWARD.

DAVID B. KEMPTON.

WILLIAM N. CHURCH.

CLERK OF THE WATER BOARD, AND SUPERINTENDENT.

ROBERT C. P. COGGESHALL.

WATER REGISTRAR.

JAMES H. HATHAWAY.

FOREMAN.

FRANK M. ASHLEY.

PUMPING STATION.

ADONIRAM S. NEGUS, *Pumping Engineer.*

INSPECTOR.

CLIFFORD BAYLIES.

REPORT.

City of New Bedford,
Office of the New Bedford Water Board,
December 29, 1890.

To the City Council of the City of New Bedford:

Gentlemen,—In accordance with the provisions of the water ordinance, the Water Board respectfully submit their twenty-first annual Report. Accompanying it may be found the Reports of the Superintendent, City Treasurer, and Water Registrar.

To these reports you are referred for the detailed account of the operations of the works and their financial condition.

We present the following abstract drawn from the report of James H. Hathaway, City Treasurer:

Balance, Dec. 1, 1889,	$34,962.79
Receipts for the year, all sources,	80,110.64
	$115,073.43

The charges have been as follows:

Expenditures for management and repairs,	$30,701.31
Expenditures for extensions,	40,246.59
	$70,947.90

Which leaves a balance to the credit of the works on the books of the City Treasurer, December 1, 1890,	$44,125.53

The following is a brief statement regarding the financial operations of the past year:

DEBITS.

Balance, December 1, 1889,		$34,962.79
Receipts from water rates,		62,481.53
Receipts from rents, sales, etc.,		205.64
Receipts from laying main and service pipes in private property,		5,423.47
Receipts from public funds:		
General appropriation from management and repair account to water debt,	$5,000.00	
General appropriation for use of water for public purposes,	12,000.00	
General appropriation by tax levy to make up deficit,	67,900.00	85,500.00
		$188,573.43

CREDITS.

Management and repairs,	$30,701.31
Extension of works,	40,246.59
Interest on bonds,	43,500.00
Bonds paid,	30,000.00
Balance, December 1, 1890,	44,125.53
	$188,573.43
The actual outlay for the construction of these works, December 1, 1890, exclusive of debt, interest, and management and repair account is	$1,436,910.06

The supply of water during the year has been ample and the quality has remained uniformly good.

Forty-eight petitions have been received for the extension of main distribution pipe; of this number forty-seven have been granted.

Twelve thousand seven hundred fifteen feet of main distribution pipe has been laid, and four thousand nine hundred two feet of that previously laid has been removed, making a total of $62\frac{5411}{10000}$ miles now in use.

The twenty-inch leading main has been extended in Sixth and County streets from Bedford street to South street, and during the coming year it is proposed to continue it from its present terminus southerly in County street to Rivet street.

Both the six-inch main in Water street from Gifford street to Cove street, and the four-inch main in French avenue from Cove street to Social street have been removed and replaced with a twelve-inch main.

The four-inch wrought iron cement lined main in Acushnet avenue from Walnut to Bedford has been removed and the same replaced with an eight-inch cast iron pipe.

An eight-inch main has been placed in Cannon street from Acushnet avenue to Water street, and a ten-inch main has been laid in Water street from Cannon street to Leonard street. The main pipe formerly in these locations has been removed.

The number of service supplies which have been placed the past season is 290. Total number now in use 6394.

A contract was signed on the twentieth day of the present month with the McNeal Pipe & Foundry Company, of Burlington, N. J., to supply the necessary amount of cast iron pipe and special castings needed for the work of the coming year, the price to be twenty-seven dollars per gross ton for straight pipe and $2\frac{5}{8}$ cents per pound for special castings. This price includes delivery in New Bedford on or before the 10th of April, 1891.

A considerable amount of work has been done at the pumping station. A new chimney 125 feet in height and with a core 5 feet in diameter has been erected. A large addition has been built to the coal house and it now has a storage capacity of 600 gross tons. It is proposed to connect the boiler plant to the new chimney early during the coming year.

After a faithful service of over twenty-one years boilers Nos. 1 and 2 are so much worn as to be unfit for further service unless extensive repairs be made. Should this be done, their future life would be very uncertain and in the interest of economy it would be a very doubtful investment. It is proposed in the near future to replace these boilers with one boiler of modern type. Acting under the advice of Mr. E. D. Leavitt, the well known mechanical engineer, we are now having plans and specifications prepared for what is known as the "Belpaire fire box" type of boiler. We have to consider the possibility of future needs as well as that of present requirements. We now have to provide for the varying demands of our pumping engines. Engines Nos. 1 and 2 run at a low steam pressure; engine No. 3 requires a steam pressure of 125 pounds. The type of boiler which we are considering will easily run any two of our engines under the above named conditions. It can easily be crowded to do work that it would be unsafe to attempt with an under-fired boiler. The designs are being made to provide for a working pressure of 160 pounds. This is looking to the future, as it must be borne in mind that the best practice in pumping engines looks towards the use of triple expansion engines with boiler pressure varying from 150 to 200 pounds per square inch.

The experience of the past year leads us with renewed emphasis to again call attention to the rapid increase in the daily consumption of water. This increase has surpassed the estimate of a year ago and forces the conclusion (foreshadowed in the last Report) that the limit of capacity of the present conduit will be reached in the near future and that the question of expending a large sum of money for the construction of a new conduit must soon be seriously considered.

Only by checking the waste by domestic consumers and the improper use of the water by manufacturing corpora-

tions, can this danger be averted; and when it is considered that we have ample means of supply for all legitimate purposes for many years to come, it would seem as if every taxpayer should heartily coöperate with this Board in its effort to keep the consumption of water within its proper limits and thus aid in postponing the expenditure of a large sum of money to the day when it shall become necessary only by the natural and healthy demand of an increased population.

Respectfully submitted.

WALTER CLIFFORD,
WILLIAM A. TUCKER,
HENRY HOWARD,
DAVID B. KEMPTON,
WILLIAM N. CHURCH,
} New Bedford Water Board.

Report of the Water Registrar.

City of New Bedford,
Water Registrar's Office,
December 1, 1890.

To the New Bedford Water Board:

Gentlemen,—I herewith present to you the annual statement of my accounts as Water Registrar for the year ending at this date.

The accounts are arranged in the following order, viz.:

1. The receipts for the year from all sources.

2. A classified statement of expenditures for the year.

3. A recapitulation of the outlay for the year, showing the net expenditures under each head.

4. A general recapitulation of the outlay from the commencement of the works to this date.

5. The source of income applied to construction account.

6. Water debt and payments made on account of the same.

CREDITS TO THE NEW BEDFORD WATER WORKS.

Balance, December 1, 1889,			$34,962.79
Receipts for water:			
Rates,	$62,481.53		
Appropriations,	12,000.00	$74,481.53	
Receipts on account of services:			
Services,	$5,248.93		
Meters,	145.53		
Fines,	12.00		
Sewers, general account,	29.01	5,435.47	
Receipts from other sources:			
Sale of hay,	$91.50		
Sale of wagon,	100.00		
Discount on tax,	2.14	193.64	80,110.64
			$115,073.43
Expenditures for the year ending December 1, 1890,			70,947.90
Balance, cash in treasury, December 1, 1889,			$44,125.53

EXPENDITURES FOR 1890.

MANAGEMENT AND REPAIRS.

Engineering and superintendence,	$4,058.34	
Water registrar, inspection and clerk hire,	2,676.03	$6,734.37
Pumping expenses:		
Engineer, fireman, and watchman,	$4,320.98	
Fuel for pumping engines,	4,619.88	
Oil, waste, packing, and gas,	372.65	
Other supplies,	72.16	
Repairs of engines,	601.19	
Repairs of boilers,	45.65	
Incidentals,	352.21	10,384.72
Maintenance, engine house and lot,		460.66
Maintenance of mains,		1,116.90
Services:		
Labor and stock,	$105.94	
New stop boxes, cleaning taps, etc.,	308.42	
Plumbing,	446.25	860.61
Receiving and distributing reservoir and standpipe,	$970.43	
Painting receiving reservoir fence,	142.46	1,112.89

Fountains and meters,		$187.95	
Little Quitticas connection,		407.97	
Storing reservoir, dam, and conduit,		380.30	
Water street work shop and pipe yard,		339.93	
Repairs of keeper's house near the distributing reservoir,		74.60	
Repairs of streets and board of horses,		560.29	
Incidentals,		1,957.49	
Public debt,		5,000.00	
Sinking funds,		600.00	
Sewer taxes,		522.63	$30,701.31

EXTENSIONS.

Mains:			
Main pipe and special castings,	$12,092.75		
Labor, laying mains,	5,722.68		
Lead, carting and blacksmith,	1,548.98		
Other supplies,	699.30		
Stop gates, hydrants, etc.,	2,263.94		
Unloading pipe and wharfage,	80.45	$22,408.10	
Services:			
Service pipe, lead and iron,	$1,675.54		
Taps, stops boxes, and other supplies,	2,097.02		
Labor, laying services,	1,647.60		
Plumbing,	293.75	5,713.91	
Mill piping,		457.11	
Fountains and meters,		201.80	
New chimney at pumping station,		7,209.84	
Addition to pumping station,		4,255.83	40,246.59
Total expenditures for the year,			$70,947.90

NET EXPENDITURES UNDER EACH HEAD.

MANAGEMENT AND REPAIRS.

Outlay as above stated,			$30,701.31
Deduct from this account:			
Public debt,		$5,000.00	
Sinking funds,		600.00	
Hay sold,		91.50	
Wagon sold,		100.00	
Discount on tax and fines,		14.14	5,805.64
			$24,895.67

EXTENSION.

Pipe, labor, and expenses laying mains,		$22,408.10	
Services:			
Outlay as above,	$5,713.91		
Received from takers,	5,277.94	435.97	
Hydrants, fountains, meters, etc.:			
Fountains and meters,	$201.80		
Meters sold,	145.53	56.27	$22,900.34

SPECIAL.

Mill piping,	$457.11	
New chimney at station,	7,209.84	
Addition to station,	4,255.83	
Sinking funds,	600.00	
Interest on water debt,	5,000.00	17,522.78
Net expenditures for 1890,		$65,318.79

CONDENSED STATEMENT.

DEBITS.

Net expenditures for the year,	$65,318.79	
Balance unexpended,	44,125.53	$109,444.32

CREDITS.

Balance, December 1, 1889,	$34,962.79	
Received for water,	74,481.53	$109,444.32

GENERAL SUMMARY.

The whole outlay upon the works to this date has been as follows:

Conduit,	$212,307.89
Dam,	18,845.24
Distributing reservoir,	73,740.62
Distribution,	722,590.53
Engine house and lot,	102,694.07
Engines and foundations,	88,169.46
Storing reservoir,	53,496.06
Receiving reservoir,	33,360.27
Pump well and culvert,	16,561.41
White homestead,	4,000.00
Peckham road,	512.00

Preliminary,	$2,605.34
Engineering,	23,511.88
Salaries,	9,225.00
Incidentals,	8,124.05
Management and repairs,	398,382.43
Fountains, hydrants, meters, etc.,	21,759.58
Real estate, work shop and land,	6,498.75
Land, State street,	350.00
New force main,	23,958.30
Inspection,	5,570.39
Temporary connections, Little Quitticas,	2,881.34
Little Quitticas, extensions,	6,147.88
	$1,835,292.49
Payments of interest on debt,	53,788.14
Water bonds paid, 6 per cent.,	20,000.00
Sinking funds,	1,800.00
	$1,910,880.63
Balance, December 1, 1890,	44,125.53
	$1,955,006.16

The receipts from the commencement of the works to this date have been as follows, viz. :

Appropriations by City Council,	$1,038,000.00
Received for water,	917,006.16
	$1,955,006.16
Deduct amount above stated,	1,910,880.63
Showing balance at this date,	$44,125.53

Outlay as above,		$1,910,880.63
Deduct from outlay :		
Paid for management and repairs,	$398,382.43	
Interest paid,	53,788.14	
Bonds paid,	20,000.00	
Sinking funds,	1,800.00	473,970.57
Actual cost of works to date,		$1,436,910.06

Total receipts for water,	$917,006.16
Deduct from this:	
Amount paid for maintenance, debt, interest, and sinking funds,	473,970.57
Water receipts applied to construction,	$443,035.59
Receipts for water in 1890,	$74,481.53
Receipts for water in 1889,	67,745.89
Increase for 1890,	$6,735.64

The increase in the amount received for water since December 1, 1888, has been $12,945.99.

The funds for the construction of the water works have been derived from the following sources:

Investment of Sylvia Ann Howland educational bequest,	$100,000.00
Sylvia Ann Howland water bequest,	100,000.00
Received from sale of bonds,	815,000.00
Net receipts for water applied to this account,	443,035.59
Appropriation for construction in 1885,	23,000.00
	$1,481,035.59
Deduct balance, December 1, 1890,	44,125.53
Net cost as above stated,	$1,436,910.06

The water debt at this time is as follows:

Water bonds, 7 per cent.,	$120,000.00
" " 6 " "	280,000.00
" " 5 " "	100,000.00
" " 4 " "	120,000.00
Sylvia Ann Howland educational fund, 6 per cent.,	100,000.00
	$720,000.00
Less sinking funds,	1,941.06
Net water debt, December 1, 1890,	$718,058.94

The appropriations by the City Council for 1890 were as follows:

Water bonds, 6s,	$20,000.00
Water bonds, 7s,	10,000.00
Interest on bonds,	31,900.00
Interest on trust funds,	6,000.00
Total appropriations,	$67,900.00
Net expenditures by Water Board,	65,318.79
Actual expenditures,	$133,218.79

Number of services added during the year,	290
Number of persons using water December 1, 1889,	34,000
Since added,	1,740
	35,740

This includes those using water in dwellings only.

Under Chapter 17, Section 12, of the ordinances of the city, the receipts of the treasurer for water rents should be appropriated as follows:

First: To the payment of the expenses of the management and repairs of the works, and such extensions as may be ordered by the Water Board.

Second: To the payment of the interest on the water debt.

Third: To the payment of the water bonds as they become due.

Heretofore the receipts for water rates have been largely applied to management and repairs and to the construction of the works, a small portion of the receipts only having been applied to debt and interest, as shown by the foregoing statement. The balance at the close of the present year amounted to $44,125.53; this, together with the anticipated receipts for the coming year, will exceed the requirements for maintenance and extensions, allow for the payment of at least $25,000 of the water debt due in October next, and leave to the credit of the works at the close of the year a balance of nearly $25,000. I therefore take the liberty to recommend to the Water

Board, that the sum of $25,000 be appropriated from the receipts for water rates toward the payment of the water debt as anticipated and required by the city ordinances.

The inspector reported 884 services turned off and on, a large number of which were for repairs, twelve only having been turned off for non-payment of rates within the required time.

Respectfully submitted.

JAMES H. HATHAWAY,
Water Registrar.

Report of the Superintendent.

New Bedford Water Works,
Superintendent's Office,
December 1, 1890.

To the New Bedford Water Board:

Gentlemen,—The superintendent's twenty-first annual report of the operations of this department for the year ending December 1, 1890, is herewith respectfully presented.

The record of rainfall in three localities appears in annexed table A, viz.: at the Long Plain storing reservoir, at the pumping station, and Mr. Thomas R. Rodman, as usual, kindly contributes the record kept at his residence at the corner of Spring and County streets.

The following statement shows the results of monthly examinations of samples of the Acushnet water made by the State Board of Health. The quantity of algæ and other organisms in the water is quite well indicated by the suspended albuminoid ammonia. I am told by Mr. Stearns, chief engineer of the State Board of Health, to whom I am indebted for the result of these examinations, that the amount of suspended matter in the Acushnet water has been remarkably low during recent years. There has been an almost entire absence of the blue-green algæ which make their appearance as the water becomes offen-

sive. I am unable to give a really satisfactory answer to the question why we do not have a recurrence of the trouble of former years. It would seem to me that the keeping of the storing reservoir filled to high water limit during the summer and fall months tends to an improvement in the quality. I am, however, informed that in similar cases where the trouble has been similar to that which we formerly experienced, the experiment of passing a large flow of water through the storing reservoir, thus making an entire change every few days, has not given the desired result.

Water Analysis—State Board of Health.

PARTS IN 100,000.

No.	Date of Collection.	Date of Examination.	Appearance. Turbidity.	Appearance. Sediment.	Color.	Residue on Evaporation, Filtered through filter paper. Total.	Loss on Ignition.	Fixed.	Ammonia. Free.	Albuminoids. Total.	Albuminoids. In Solution.	Albuminoids. In Suspension.	Chlorine.	Nitrogen as Nitrates.	Nitrogen as Nitrites.
5467	1889. Dec. 19.	1889. Dec. 20.	Very slight.	None.	1.5				.0032	.0236	.0202	.0034		.0060	.0001
5561	1890. Jan. 22.	1890. Jan. 23.	Very slight.	Very slight reddish brown.	1.5				.0008	.0208	.0184	.0024		.0200	.0001
5723	Feb. 26.	Feb. 27.	Very slight.	Very slight.	1.1				.0004	.0178	.0162	.0016		.0180	.0001
5802	Mar. 20.	Mar. 21.	Very slight.	Very slight.	1.3				.0006	.0176	.0160	.0016	.53	.0200	0001
5894	Apr. 16.	Apr. 17.	Very slight.	Very slight.	0.8				.0006	.0174	.0118	.0056	.43	.0100	.0000
6000	May 21.	May 22.	Very slight.	Considerable coarsely flocculent.	1.5				.0018	.0242	.0214	.0028	.41	.0150	.0000
6143	June 27.	June 28.	Slight.	Slight.	1.8				.0014	.0320	.0262	.0058	.33	.0050	.0001
6276	July 22.	July 23.	Very slight.	Very slight brown flocculent.	2.1	5.40			.0016	.0352	.0304	.0048	.39	.0030	.0002
6429	Aug. 20.	Aug. 21.	Very slight.	Slight brown flocculent.	1.5	4.50	2.60	1.90	.0030	.0228	.0186	.0042	.44	.0095	.0001
6529	Sept. 18.	Sept. 18.	Slight.	Slight.	0.9				.0000	.0214	.0174	.0040	.44	.0150	.0000
6634	Oct. 22.	Oct. 23.	Very slight.	Very slight.	1.8	4.95	2.05	2.90	.0008	.0244	.0210	.0014	.47	.0110	.0001
6750	Nov. 24.	Nov. 25.	Very slight.	Very slight.	1.7	5.65	2.75	2.90	.0016	.0218	.0194	.0024	.50	.0120	.0002

The samples were collected from the conduit at the entrance to the receiving reservoir.
Odor, faint or none—sometimes distinctly vegetable.
Average hardness for the last six months, 1.19.

Scale of colors. 0 = Colorless.
1 = Yellowish brown tint.
2 = Deep yellowish brown tint.

The flow of water from Little Quitticas pond into the storing reservoir was started on July 14th, and was closed on October 15th. Thus it ran continuously for ninety-three days. The amount of water drawn from Little Quitticas pond did not vary much from 3,000,000 gallons per day.

The storing reservoir has remained full during the entire year. No other work than that necessary for proper maintenance has been done in connection with any of the reservoirs. The same remarks will also apply to the conduit.

Engine No. 1 (McAlpine) has been in operation 2752 hours 10 minutes, making 2,579,903 revolutions, and pumping 755,911,579 gallons of water. No repairs of any account have been needed, and the engine now is in excellent condition.

The cost of pumping has been as follows, viz.:

Salaries, 25½ weeks,	at	$83.0958	$2,118.92	
306.3403 gross tons Lehigh coal,	"	5.44	1,666.49	
248.4607 " " " "	"	4.50	1,118.07	
¾ cord white pine wood,	"	4.00	3.00	
39⅞ gallons cylinder oil,	"	.48	19.14	
18¼ " sperm oil,	"	.82	14.97	
39⅜ " lubricating oil,	"	.32	12.60	
3 " alcohol,	"	2.50	7.50	
1⅛ " kerosene oil,	"	.10	.11	
17 pounds flax packing,	"	.61	10.37	
81 " waste,	"	.08½	6.89	
59,800 cubic feet gas,	"	1.50	89.70	
3 brooms,	"	.22	.66	
Brass pan,			2.00	
Metallic packing,			22.03	
Repairs to engine,			38.34	
Repairs to boilers and setting,			7.99	$5,138.78

Cost of raising water into distributing reservoir, per million gallons,	$6.80
Cost of pumping water one foot high, per million gallons,	5.05 cents.

Engine No. 2 (Worthington) has been in operation 659 hours, making 742,246 revolutions and pumping 109,852,408 gallons of water.

The removal of the lower part of the foot valve was done last year, although the cost appears in the bills of this year. Aside from this the repairs have been of a trifling nature.

The cost of pumping has been as follows, viz.:

Salaries, 5 weeks,	at	$83.0958	$415.48	
88.4533 gross tons Lehigh coal,	"	5.44	481.18	
10.1786 " " " "	"	4.50	45.80	
$\frac{5}{8}$ cord white pine wood,	"	4.00	2.50	
$7\frac{5}{8}$ gallons cylinder oil,	"	.48	3.66	
$2\frac{7}{8}$ " sperm oil,	"	.82	2.36	
$2\frac{3}{4}$ " lubricating oil,	"	.32	.88	
$14\frac{1}{4}$ lbs. waste,	"	.08½	1.21	
15,800 cubic feet of gas,	"	1.50	23.70	
2 brooms,	"	.22	.44	
Repairs to engine, including part of new foot valve,			155.80	
Repairs to boilers,			7.99	$1,141.00
Cost of raising water into distributing reservoir, per million gallons,				$10.39
Cost of pumping water one foot high, per million gallons,				8.24 cents.

Engine No. 3 (Worthington high duty) has been in operation 2758 hours 10 minutes, making 3,078,286 revolutions, and pumping 597,191,364 gallons of water.

The repairs have been confined to the compensating cylinder end of the engine. Two of the lower journals of the compensating cylinders and the plungers in two of the cylinders have been rebushed.

The cost of pumping is herewith stated, viz.:

Salaries, $21\frac{1}{2}$ weeks,	at	$83.0958	$1,786.58
230.9159 gross tons Lehigh coal,	"	5.44	1,256.18
122.8128 " " " "	"	4.50	552.66
$\frac{3}{8}$ cord white pine wood,	"	4.00	1.50
$55\frac{3}{8}$ gallons cylinder oil,	"	.48	26.58

16 gallons sperm oil,	at	$.82	$13.12	
42⅞ " lubricating oil,	"	.32	13.72	
150 lbs. caustic soda,	"	.05½	8.25	
200 " clear grease,	"	.04	8.00	
68 " waste,	"	.08½	5.78	
10 " flax packing,	"	.61	6.10	
5 " Tuft's packing,	"	.40	2.00	
65,200 cubic feet gas,	"	1.50	97.80	
16 water glasses,	"	.25	4.00	
3 brooms,	"	.22	.66	
Lubricators for feed pumps,			24.00	
Repairs to engine,			359.02	
Repairs to boilers,			29.67	$4,195.62

Cost of raising water into distributing reservoir, per million gallons,	$7.02
Cost of pumping water one foot high, per million gallons,	5.52 cents.

Boilers Nos. 1 and 2 are badly worn. No. 1 is in the worse condition. It has a very bad blister right over the grate which is quite large, and in places about one third of the iron is gone. These boilers have been in use for twenty-one years. As you now have this matter under advisement, further comment by me at this time is unnecessary.

Boilers Nos. 3 and 4 need retubing, otherwise they are in good condition.

Boilers Nos. 5 and 6 are in good condition, and are not in need of any repairs.

The total cost of pumping for the past year may be summarized as follows, viz.:

1st. Figured on pumping station expenses, viz.:		$10,475.40
Cost of fuel used,	$5,127.38	
Salaries, engineers, firemen, watchmen,	4,320.98	
Cost of oil, waste, packing, and other supplies,	380.20	
Repairs and alterations on machinery and boilers,	646.84	
Total pumping expenses,		$10,475.40

Raising water into reservoir, per million gallons,	$7.12
Raising water per million gallons, one foot high,	5.44 cents.

2d. Figured on total maintenance, viz.:	$73,601.31
Raising water into reservoir, per million gallons,	$50.31
Raising water per million gallons, one foot high,	38.42 cents.

The coal house has been extended south 45 feet. Its south wall is now on line with the south wall of the boiler room. Externally its appearance is in harmony with the older portion. There are now two doors on the west side of the building which will permit of teams being driven in one door and out of the other. There is 2593 square feet of available floor surface, which will provide space for the storage of 600 gross tons of coal. There was bought for the construction of the building:

50 tons underpinning stone,
300 feet dimension stone,
29 barrels American cement,
4 barrels Portland cement,
38 barrels lime,
2934 bushels sand.

In removing stone walls to construct the chimney, and which were afterwards replaced by the brick walls of the sides of the chimney, there was obtained a large lot of stone which was used in the construction of the coal house. If compelled to provide this stone by purchase it would have cost about $135.

There has been expended upon the account of this extension of the coal house the sum of $4255.83, which should be thus divided:

Masons, stone cutters, and laborers,	$1,537.70	
Carpenters, labor, and stock,	973.69	
Stone, sand, cement, and lime,	366.90	
Slating and tinning roof,	576.30	
Other materials and supplies,	408.25	
Grading and paving roads around building,	392.99	$4,255.83

A new chimney stands within the enclosure of the new coal house and at about the middle of the west side of the

boiler room. The foundation of this chimney is of rubble masonry laid in cement mortar. This foundation rests upon solid ledge, the top of which is eight feet below level of boiler room floor. The brick work commences at the boiler room floor and is 13 feet 7 inches square. This form is continued with perpendicular walls for a height of 18 feet, which point is just above the level of the wrought iron smoke flue placed for the boiler connection. It is then drawn into a circular form with an outside shell of diameter of $12\frac{2}{3}$ feet. At this point the shell is 24 inches thick and has a batter of 0.2275 inches per foot until it reaches a height of 107 feet above the floor, at which level the thickness of the shell is 16 inches. From this point upward the outside shell gradually flares outward until just below the cap, where its thickness is 24 inches. The core of the chimney is circular with inside diameter of 5 feet, and with a thickness of 12 inches at its beginning, which is gradually reduced to 4 inches. Its top is 20 feet below the top of the outside shell. The top of the shell is surmounted by an iron cap cast in six sections, the total weight of which is 3544 pounds. The level of the top of this cap is 125 feet above the boiler room floor. The chimney is fitted with two half-inch copper lightning rods with four perpendiculars upon the cast iron cap. There is a door at the base of the chimney for cleaning purposes. A wrought iron smoke flue enters the chimney from the boiler room. This flue is oblong, length $6\frac{1}{2}$ feet, width $3\frac{1}{2}$ feet. It turns upward as it enters the core of chimney. Its bottom is 11 feet above boiler room floor.

There was used in the construction of this chimney

85 tons of stone,
216,500 brick,
101 barrels American cement,
17 " Portland cement,
177 " lime,
2674 bushels sand.

The total outlay on this work has been as follows:

Labor,	$2,854.77
Stone,	128.52
Brick,	2,510.50
Cement,	167.97
Lime,	192.93
Sand,	120.34
Timber,	188.48
Iron work,	579.20
Lightning rod,	155.25
Other materials,	311.88
	$7,209.84
Value of remaining stock,	363.19
Actual cost of chimney,	$6,846.65

There has been $2\frac{4081}{10000}$ miles of main distribution pipe laid during the past season, and 4902 feet of that previously laid removed. The total mileage of distributing mains now is $62\frac{5411}{10000}$ miles.

The twenty-inch supply main has been continued from its former terminus in Sixth street near the south line of Bedford street, southerly through Sixth and County streets to a point in the last named street near the south line of South street. This work required the placing of

1485 feet 20-inch pipe,
36 feet 8-inch pipe,
65 feet 6-inch pipe,
6 feet 4-inch pipe,
9 stop gates,
4 fire hydrants.

The cost was as follows:

Pipe,	$3,396.66
Special castings,	322.12
Gates and hydrants,	512.97
Lead and gasket,	325.08
Repair roadbed,	136.34
Repair drains,	24.36

Carting,	$109.50	
Labor,	1,118.21	
Other expenses,	18.25	$5,963.49
Credit by value of pipe, specials, etc., removed from Sixth and County streets,		305.37
		$5,658.12

A twelve-inch main pipe has been laid in Water street and French avenue from the south line of Gifford street to a point near the south line of Social street. The smaller pipe formerly in use has been removed. The material required was as follows:

1196 feet 12-inch pipe,
3 stop gates,
1 fire hydrant.

The cost was as follows, viz.:

Pipe,	$1,339.52	
Special castings,	160.83	
Gates and hydrants,	215.00	
Lead and gasket,	114.02	
Labor,	525.26	
Carting,	55.00	
Petroleum oil,	3.00	$2,412.63
Credit by value of pipe, specials, etc., removed from Water street,		227.78
		$2,184.85

An eight-inch main pipe has been laid in Acushnet avenue from Walnut street to Bedford street. The four-inch wrought iron cement lined pipe formerly in use has been removed. There was used

1259 feet 8-inch pipe,
26 feet 6-inch pipe,
7 feet 4-inch pipe,
4 stop gates,
3 fire hydrants.

The cost was as follows, viz. :

Pipe,	$867.08	
Special castings,	89.61	
Gates and hydrants,	221.97	
Lead and gasket,	78.52	
Repair drains,	7.88	
Labor,	591.25	
Carting,	45.50	
Other expenses,	6.08	$1,907.89

An eight-inch pipe has been laid in Cannon street from Acushnet avenue to Water street. The four-inch pipe in Cannon street from Second street to Water street has been removed. There was required

600 feet 8-inch pipe,
6 feet 6-inch pipe,
4 stop gates,
1 fire hydrant.

The cost may thus be stated :

Pipe,	$410.70	
Special castings,	64.20	
Gates and hydrants,	154.08	
Lead and gasket,	41.50	
Labor,	307.31	
Carting,	12.50	
Other expenses,	20.61	$1,010.90
Credit by value of pipes, specials, etc., removed from Cannon street,		72.64
		$938.26

A ten-inch main pipe replaces the six-inch main pipe formerly used in Water street from Cannon to Leonard. It is proposed to eventually replace all the six-inch main pipe remaining in Water street with that of ten inches in diameter. The material required for the work of this year is herewith shown, viz. :

415 feet 10-inch pipe,
12 feet 6-inch pipe,
1 stop gate,
1 fire hydrant.

The cost was as herewith stated:

Pipe,	$370.60	
Special castings,	63.55	
Gates and hydrants,	86.50	
Lead and gasket,	43.20	
Labor,	286.31	
Carting,	15.00	
Other expenses,	51.00	$916.16
Credit by value of pipe, specials, etc., removed from Water street,		128.82
		$787.34

There have been nine leaks upon the mains the past year, as herewith shown:

DATE.	SIZE.	LOCATION.	CAUSE.	COST.
Dec. 27, 1889	6-inch	Blackmer st., east of Acushnet av.	Joint started	$2.50
Apr. 29, 1890	4 "	Prospect st., near South.	" "	2.50
May 21, "	8 "	Acushnet av., south of Geo. Hatch's lane.	" "	3.68
June 30, "	8 "	Front st., south of Logan.	" "	4.12
July 3, "	2 "	Fish Island.	Pipe burst.	8.70
Aug. 28, "	6 "	Front st., south line Middle.	Pipe broken.	12.96
Aug. 30, "	4 "	Elm st., east of Pleasant.	Pick hole.	4.25
Sept. 2, "	8 "	Wamsutta st., opposite Mill No. 3.	Joint started	12.23
Nov. 2, "	8 "	Front st., north of Copper works.	" "	12.86

I would recommend that during the coming year the twenty-inch leading main be extended from its present terminus in County street near South street southerly through County street to Rivet street. This will require the placing of 1280 feet 20-inch pipe and the cost is estimated at $5200.

Two hundred ninety service pipes have been added, and one extension has been made to pipe laid previously.

The total number now in use is 6294.

Ninety-six service taps have been cleared, as follows, viz.: Rust, 94; trouble inside, 1; trouble in meter, 1.

Thirty-four new hydrants have been set, and seventeen previously set have been removed.

Total number now in use, 477.

Thirty-five new stop gates have been set, and nine previously set have been removed.

Total number now in use, 669.

Five new waste gates have been set, and two previously set have been removed.

Total number now in use, 68.

Two private stop gates have been set.

Total number now in use, 142.

The total length of small sized distribution pipe (less than four-inch) is 6177 feet.

The total number of small sized stop gates (less than four-inch) is 63.

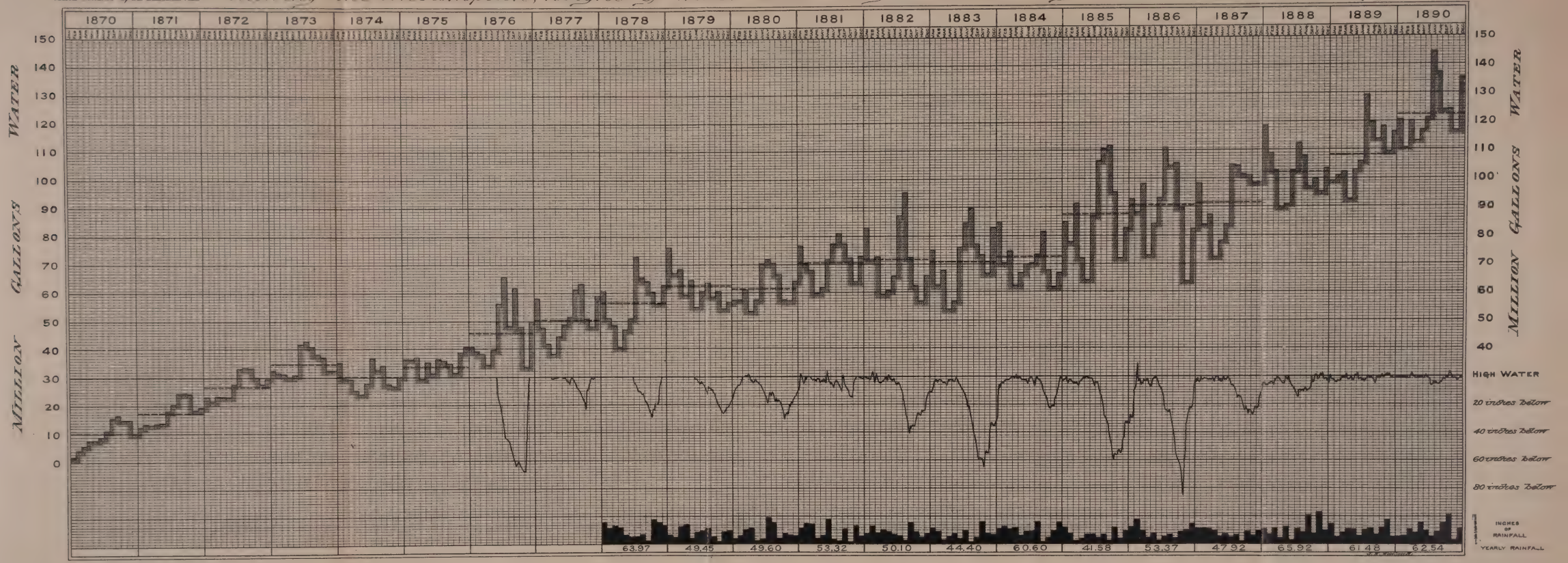
The total number of motors is 30.

The total number of meters is 123.

Details regarding the monthly consumption from the beginning appear in the annexed diagram. The fluctuation of the water level in the storing reservoir and the rainfall are also shown. The following tables present matters of interest regarding the consumption.

NEW BEDFORD WATER WORKS

DIAGRAM showing the consumption, height of water and rainfall at Storing Reservoir from the beginning.



MONTHLY CONSUMPTION AND RECORD OF PRESSURE AT THE CITY HALL.

1890. Month.	Monthly Consumption. Gallons.	Daily Average. Gallons.	Lbs. Pressure 10 A. M.			Lbs. Pressure Midnight.		
			Max.	Min.	Av.	Max.	Min.	Av.
January,	120,584,159	3,889,859	35	33	34	36	35	35
February,	110,516,933	3,947,033	36	33	34	37	35	35
March,	120,095,745	3,874,056	35	32	34	36	34	35
April,	113,177,651	3,772,568	35	33	34	36	35	36
May,	117,026,896	3,775,061	35	31	34	37	35	36
June,	121,139,191	4,037,973	35	30	33	36	33	35
July,	144,434,984	4,659,193	36	30	33	36	34	35
August,	137,200,845	4,425,834	35	31	33	37	33	35
September,	124,077,294	4,135,910	35	32	33	37	34	36
October,	124,276,309	4,008,913	35	32	34	37	34	36
November,	116,846,050	3,894,868	35	32	33	36	34	35
December,	135,567,156	4,373,134	33	31	32	35	32	34
Averages,	123,761,937	4,066,200	35	32	33	36	34	35

COMPARISON OF THE CONSUMPTION OF THE YEAR 1890 WITH THE RECORD OF THE NINE PREVIOUS YEARS.

Year.	Estimated Population.	Estimated No. of Consumers.	Total Number of Gallons Consumed.	Average Daily Consumption.	No. of Taps.	Gals. per day to each inhabitant.	Gals. per day to each consumer.	Gals. per day to each tap.
1881,	27,000	19,044	844,249,647	2,213,012	3925	86	122	589
1882,	28,500	20,424	859,119,622	2,326,352	4203	82	114	553
1883,	30,000	22,249	849,059,700	2,326,191	4465	78	105	521
1884,	33,000	23,749	867,815,595	2,371,080	4691	72	100	506
1885,	33,700	25,375	1,049,801,050	2,876,167	4965	85	113	579
1886,	34,500	28,480	1,086,534,615	2,976,807	5225	86	104	569
1887,	36,000	30,080	1,112,302,789	3,047,404	5495	85	101	555
1888,	37,500	31,826	1,229,841,794	3,360,223	5785	89	109	581
1889,	40,000	34,000	1,310,488,214	3,590,379	6104	90	106	588
1890,	41,500	35,740	1,485,143,213	4,066,200	6394	98	114	636

You will observe that the record not only indicates that the consumption of water in this city is rapidly increasing but that during the past twelve months it has increased at a rate hitherto unknown. Comparing the record of each month with that of the corresponding month in 1889 shows this increase to range from five per cent. in October to over twenty-one per cent. in January. There was used during the month of July 144,434,985 gallons, which amount is 15,200,922 gallons in excess of the largest use hitherto recorded in a single month. The maximum consumption for the year was on Tuesday, July 1st,—6,186,295 gallons. The minimum daily consumption was alike on two days, i. e., Sundays, April 27th and May 4th,—2,443,033 gallons.

I do not question the fact that a large amount of water continues to be wasted every day. Our inspector is faithful and does all he can, but in many cases his back is scarcely turned before the evil is again in existence. As he cannot be omnipresent, more in this direction cannot be expected of him. Water has a value. Its waste is equivalent to the slipping away of a certain amount of money. Such being the case, one would naturally suppose that as our citizens are obliged to meet the expenses of the department, they would have the greatest possible interest in preventing waste. Too often, indeed, cases occur where there seems to be little or no interest whatever in the matter. I firmly believe that the only true solution of this problem is to apply meters to all services where any considerable amount of water is known to be used. It would require a large expenditure to accomplish this, but I am sure it would prove to be a saving investment.

While it is possible to do much in preventing this waste, yet we must not be unmindful of the fact that our city is rapidly increasing in population. New enterprises are added each year to the former list. An abundant supply of water must be furnished in order that these industries may flourish. Indeed, one of the very inducements offered to those seeking locations for factories is that here they will obtain a bountiful supply at a merely nominal rate.

But here let me remind you that it will not be possible for us to supply many more factories until means are provided whereby we can obtain and distribute an amount of water largely above our present possibilities.

In order to obtain the largest possible amount of water through the conduit leading from the storing reservoir at Long Plain to this city, it is of course necessary that that reservoir should be filled to its extreme limit. For the

past three years such has been the case. Rain has fallen very much as needed. At times we thought it rather too plentiful. Thus far we have been able to obtain all the water needed for our consumers.

The tendency of the storing reservoir during a drought is to rapidly settle. Even with the additional flow into it from Little Quitticas pond, just what the effect of a long continued drought will be remains to be seen. The delivery of the conduit is impaired proportionately as the water level settles from high water mark. At the present time our daily requirements average upwards of four million gallons. There are single days when we have supplied over six million gallons, and five million gallons per day is a very common usage. You will remember that during the drought of 1886 the storing reservoir settled so much that it was barely possible to obtain a daily flow through the conduit of three million gallons. Under the best of conditions about six million gallons per day is all that it ought to be depended upon to deliver, although with a full reservoir it can be forced to deliver considerably above that amount. But it is unwise to attempt this if it can be avoided. It is a frail structure and ought not to be subjected to any undue internal pressure.

My purpose is to again remind you that our daily requirements are approaching a limit very near to the full capacity of the conduit. If our city is to continue its present prosperous growth, as there is every indication to believe it will, then the question of placing an additional conduit is one which must claim your serious attention in the near future.

The lack of capacity in our distributing system is another problem which will require solution in a few years. The loss of pressure during the hours when the large mills are in operation is now about four pounds below normal.

This trouble bids fair to soon be as serious a matter as it was before the twenty-inch main was laid and which as yet is not wholly completed. Probably the best solution of the question will be to discontinue all supplies to the large mills from the present distributing system and transfer them to a new system to be laid solely for their own use,—said system to be supplied by a large main connecting direct to the distributing reservoir and with no connection whatever with the present distributing system. Should this be done the present system of mains will be found to have sufficient capacity for years to come, and it would not then be possible for the manufactories to reduce the pressure among the domestic consumers.

Further information regarding the work of the past season will be found in the annexed tables.

Respectfully submitted.

R. C. P. Coggeshall,

Superintendent.

TABLE A.

SHOWING RAINFALL AT STORING RESERVOIR FOR 1890.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1			.11	.23	.40			.68				
2												
3		.16	1.30									.15
4		.05				.14				.94		.35
5				1.04	.88				.10			.10
6	.13		.28		1.87	.28			1.26			.27
7				.31	.05	1.06	.06			.27		
8		1.06			.43					.26		
9		.35		.32	.12			.98		.02		
10									.05	.21		
11	.12				.30			.16	.81		.30	
12	.23		.13								.20	
13						2.83			.36			
14						.50				.26		
15	1.08	.66	.06		1.12				.40	.36		
16	.25		.03						2.84		.36	
17							.16		.96	.46	.36	.48
18											.30	2.02
19							.31			1.00		
20		.60	.60		1.35		.20	.58		.43		
21	.28									.10		
22						.20						
23			1.16									
24	.06									3.37		
25				.40			.16			2.00		
26		.28	.52				.80					
27	.55			1.60	1.28			2.12	.95	.27		2.10
28	.01		1.92	.22	.20				.10	.01		
29							1.38			.60		
30	.36									.10		
31												
Totals,	3.07	3.16	6.11	4.12	8.00	5.01	3.07	4.52	7.83	10.66	1.52	5.47

Total fall for the year, 62.54 inches.

TABLE A.

Showing Rainfall at Pumping Station for 1890.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1			.27		.19			.66				
2		.15										
3			1.24			.06	.02			.03		
4		.02			.83					.49		.43
5			.11	1.07	.53	.10			.08			.03
6	.06		.32		1.97	1.19		.01	.64			.24
7				.21			.07			.04	.02	
8		.78			.28					.43		
9				.32				.76				
10	.12							.18	.06	.19		
11	.22		.54		.26	.06						
12					.01	.01	.01		.66		.45	
13						3.70			.15		.02	
14		.52			.14	.02			.03	.68		
15			1.31		.14			.01	.12		.27	
16	1.35								4.95			
17							.10			1.24	.54	1.64
18		.07						.01				
19			.38		.11	.10	.27					
20	.12	.52			.78	.03	.17	.11		.83		
21			.05									.10
22						.11			.02			
23	.17	.01	1.80									.02
24				.16		.10				4.77		
25				.16		.02	.06					
26		.28	.63			.03	.61		.87			2.49
27	.48				1.15			2.00	.15	.29		
28		.50	1.63	1.73	.11							
29			.01		.02		.67	.01		.54		
30	.26									.20		
31			.24									.07
Totals,	2.78	2.85	8.53	3.65	6.52	5.53	1.98	3.75	7.73	9.73	1.30	5.02

Total fall for the year, 59.37 inches.

TABLE A.

Showing Rainfall at New Bedford as Registered by T. R. Rodman for 1890.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1				.30				.35				
2			.84		.20							
3		.15	1.84			.07						
4					.88					.41		.41
5	.05			1.00	.57	.29			.08			.03
6					2.07	1.16			.50			.23
7			.40	.23			.07			.54		
8		.68			.31							
9				.34				.82	.04			
10	.21							.10		.20		
11			.56		.27			.08				
12	.20								.60		.48	
13						3.94			.11			
14		.48			.13	.02				.70		
15			1.32		.18			.08	.10		.24	
16	1.29											
17							.19		4.76	1.35	.59	
18		.08						.06				1.72
19			.69		.92		.37					
20	.12	.64				.10	.12	.17		.79		
21			.03									.08
22						.10		.05				
23	.12		1.73									
24				.13						5.15		
25				.14		.16	.05					
26		.30	.64			.08	.45		.88			
27	.46			1.56	1.07			2.10	.13	.27		2.95
28			1.70	.40	.07							
29					.02		.66			.54		
30	.25							.01		.06		
31												.07
Totals,	2.70	2.33	9.75	4.10	6.69	5.92	1.91	3.82	7.20	10.01	1.31	5.49

Total fall for the year, 61.23 inches.

TABLE B.

Statement of Work done by Pumping Engine No. 1 (McAlpine) for the year ending December 1, 1890.

MONTHS.	Number of days pumping.	Total pumping time per month.		Total number of strokes per month.	Average number of strokes per minute.	FUEL.						Total number of gallons pumped per month, allowance being made for slip.	No. of gallons pumped per pound of coal for total coal.	No. of gallons raised 100 feet per pound of coal for total coal.	Av. dynamic head against pump in feet, no allowance for friction in suction.	Average duty in pounds raised one foot high per 100 pounds of coal, calculated on total fuel used for all purposes, no deduction.	Average duty in pounds raised one foot high per 100 pounds of coal, calculated on amount of combustible coal used while pumping.
							COAL.										
		H.	M.	STROKES		lbs. of wood Wood(——3——)Coal in pounds.	Raising steam and banking.	Ashes and clinkers.	Pumping.	Total.	Total fuel.						
						LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	GALS.	GALS.	GALS.	FT.	LBS.	LBS.
December, 1889,																	
January, 1890,	9	147	50	136,583	15.4	0	10,800	8,567	46,533	65,900	65,900	40,018,819	607	817	134.6	68,164,410	96,534,391
February, "	24	385	50	360,799	15.6	0	28,800	22,338	120,462	171,600	171,600	105,714,107	616	829	134.6	69,170,921	98,535,057
March, "	25	398	00	375,514	15.7	300	26,400	23,660	131,940	182,000	182,135	110,025,602	605	815	134.7	67,873,222	93,694,780
April, "																	
May, "																	
June, "	15	254	00	234,698	15.4	0	15,600	14,729	82,971	113,300	113,300	68,766,514	607	817	134.6	68,133,109	93,038,306
July, "	27	530	00	498,176	15.6	400	12,000	30,789	189,411	232,200	232,380	145,965,568	629	846	134.6	70,496,244	86,488,731
August, "	25	429	30	409,414	15.9	300	12,600	25,727	159,573	197,900	198,035	119,958,302	606	814	134.4	67,872,224	84,231,517
September, "																	
October, "	11	183	00	170,138	15.5	300	7,200	11,102	67,128	85,430	85,565	49,850,434	584	783	134.0	65,128,827	83,016,746
November, "	25	424	00	394,581	15.5	0	15,000	25,272	154,128	194,400	194,400	115,612,233	595	799	134.3	66,616,518	84,022,703
Totals and Av.,	161	2752	10	2,579,903	15.6	1300	128,400	162,184	952,146	1,242,730	1,243,315	755,911,579	608	818	134.5	68,199,024	89,054,483

TABLE B.

Statement of work done by Pumping Engine No. 2 (Worthington) for the year ending December 1, 1890.

MONTHS.	Number of days pumping.	Total pumping time per month.	Total number of strokes per month.	Average number of strokes per minute.	FUEL.						Total number of gallons pumped per month, allowance being made for slip.	No. of gallons pumped per pound of coal for total coal.	No. of gallons raised 100 feet per pound of coal for total coal.	Av. dynamic head against pump in feet, no allowance for friction in suction.	Average duty in pounds raised one foot high per 100 pounds of coal, calculated on total fuel used for all purposes, no deduction	Average duty in pounds raised one foot high per 100 pounds of coal, calculated on amount of combustible coal used while pumping.
					lbs. of wood = 1 lb. of coal in pounds.	COAL.										
		H. M.	STROKES		LBS.	Raising steam and banking. LBS.	Ashes and Clinkers. LBS.	Pumping. LBS.	Total. LBS.	Total fuel. LBS.	GALS.	GALS.	GALS.	FEET.	LBS.	LBS.
December, 1889,																
January, 1890,	17	382 30	429,357	18.7	300	1200	16,133	106,902	124,235	124,370	63,544,836	511	643	125.9	53,653,633	62,419,561
February, "	2	28 00	31,803	18.9	0	0	1,183	7,917	9,100	9,100	4,706,844	517	653	126.4	54,534,364	62,683,176
March, "																
April, "																
May, "																
June, "	10	187 30	211,129	18.7	300	2400	8,424	53,976	64,800	64,935	31,247,092	482	609	126.5	50,755,643	61,060,798
July, "																
August, "	2	22 00	24,698	18.7	0	0	936	6,264	7,200	7,200	3,655,304	508	637	125.4	53,112,054	61,048,338
September, "																
October, "	2	39 00	45,259	19.4	300	1200	2,082	12,372	15,600	15,735	6,698,332	429	547	125.2	44,442,750	56,442,504
November, "																
Totals and Av.,	33	659 00	742,246	18.9	900	4800	28,704	187,431	220,935	221,340	109,852,408	497	626	126.03	52,166,255	61,603,891

TABLE B.

Statement of Work done by Pumping Engine No. 3 (Worthington) for the year ending December 1, 1890.

MONTHS.	Number of days pumping.	Total pumping time per month.		Total number of strokes per month.	Average number of strokes per minute.	FUEL.						Total number of gallons pumped per month, allowance being made for slip.	No. of gallons pumped per pound of coal for total coal.	No. of gallons raised 100 feet per pound of coal for total coal.	Av. dynamic head against pump in feet, no allowance for friction in suction.	Average duty in pounds raised one foot high per 100 pounds of coal, calculated on total fuel used for all purposes, no deduction	Average duty in pounds raised one foot high per 100 pounds of coal, calculated on amount of combustible coal used while pumping.
						lbs. of wood = 1 lb. Coal	COAL.				Total fuel.						
		H.	M.	STROKES			Raising steam and banking.	Ashes and Clinkers.	Pumping.	Total.							
						LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	GALS.	GALS.	GALS.	FEET.	LBS.	LBS.
December, 1889,	26	533	15	599,388	18.7	0	8,400	20,358	126,992	155,750	155,750	116,281,272	747	952	127.5	79,394,792	97,374,156
January, 1890,	4	70	40	79,674	18.8	0	1,200	2,652	16,548	20,400	20,400	15,456,756	758	965	127.3	89,416,683	99,135,867
February, "																	
March, "	3	47	00	47,485	16.2	400	2,400	2,093	11,607	16,100	16,280	9,215,970	572	725	126.9	59,916,791	84,769,736
April, "	26	536	30	594,818	18.5	0	7,800	19,576	123,824	151,200	151,200	115,394,692	763	970	127.3	81,001,304	98,909,720
May, "	27	544	15	606,311	18.6	0	11,400	19,643	120,257	151,300	151,300	117,624,334	777	988	127.2	82,446,993	103,729,762
June, "	4	84	00	94,384	18.7	0	600	2,925	18,975	22,500	22,500	18,310,496	814	1040	127.7	86,684,720	102,788,206
July, "																	
August, "	3	56	0	61,664	18.3	200	1,800	2,223	13,077	17,100	17,190	11,962,816	699	887	126.9	73,640,506	96,802,042
September, "	27	579	30	649,964	18.7	0	6,000	21,918	140,682	168,600	168,600	126,093,016	748	954	127.6	79,582,238	95,375,140
October, "	15	307	00	344,598	18.7	0	3,600	11,422	74,378	89,400	89,400	66,852,012	748	951	127.2	79,322,425	95,343,042
November, "																	
Totals and Av.,	135	2758	10	3,078,286	18.4	600	43,200	102,810	646,340	792,350	792,620	597,191,364	754	960	127.35	80,022,754	98,131,997

TABLE C.

Location and Size of Pipe laid in 1890.

STREETS.	CAST IRON.					
	20 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Acushnet avenue, from 3 feet south of Tarkiln Hill road north to pipe line,				21		
Acushnet avenue, Tarkiln Hill road north,					302	
Acushnet avenue, Bedford to Walnut,				1283		
Arnold street, Orchard east,				108		
Babbitt street, Dartmouth west,					240	
Beetle street, Acushnet avenue east,					129	
Bonney street, from 200 feet north of Rivet north,					60	
Cannon street, Acushnet avenue to Water,				609		
Cedar Grove street, County west,					203	
Chestnut street, from 80 feet north of Parker north,					130	
Clay street, Oak north,					240	
Clinton street, Ash east,					267	
Coggeshall street, from end of pipe east of Howard east to Rock,					89	
Columbia street, Clay north,					83	
County street, from 15 feet south of South to Grinnell,	579					
County street, Grinnell north,					39	
Division street, Second west,					147	
Elm street, Palmer east,					110	
Elm street, Newton east,					93	
Florence street, from 128 feet south of Kempton south,					73	
French avenue, Cove south,		447				
Front street, Cedar Grove north,					263	
Fruit street, Hemlock west,					331	
Hall street, from 208 feet south of Rockland south to Thompson,					185	
Harmony street, from 117 feet south of Social south,					147	
Harrison street, from end of pipe south of Hickory north to Hickory,					21	
Hemlock street, Rivet to Larch,					200	
Hickory street, from 90 feet west of Dartmouth west to Harrison,					154	
Hillman street, from 79 feet east of Chancery east to Ash,					359	
Hillman street, Chancery west,					101	
James street, from 103 feet south of Union south,					88	
Katharine street, from 690 feet west of County west.					144	
Larch street, Hemlock east,					156	

Location and Size of Pipe — *Concluded.*

STREETS.	CAST IRON.					
	20 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Marvin street, from 182 feet east of Acushnet avenue east,						55
Merrimac street from 140 feet east of State east to Pleasant,			156			
Middle street, Rounds east,					100	
Nelson street, County west,					373	
Newton street, Court north,					126	
Oak street, Grape north,					167	
Park street, North south,				68		
Park street, from 262 feet north of Arnold south,				56		
Pope street, Chestnut east,					107	
Reed street, Kempton south,					222	
Robeson street, from 196 feet west of Ashland west,					187	
Rock street, Coggeshall north,					167	
Rock street, from 142 feet south of Washburn south,						36
Russell street, from 11 feet west of Sixth west,					169	
Shawmut avenue, Austin north,				224		
Sisson street, from 120 feet south of Court to Union,					129	
Sixth street, from 14 feet south of Bedford to Grinnell,	956					
South street, County east,				36		
Spruce street, from 178 feet north of Parker north,					49	
Thompson street, from end of Pipe east of Hall west to Hall,						30
Thompson street, Hall west,					11	
Trinity street, from 11 feet east of Cedar street main west,					171	
Union street, Sisson east,					105	
Washington street, County west,					23	
Water street, from 12½ feet north of Cannon south,			421			
Water street, from 13 feet south of Gifford to Cove,		761				
Weld street, from 86 feet west of State west,			35			
Willis street, from end of pipe east of Summer east to County,					201	
Wilson street, Austin north,					173	
Totals,	1535	1208	612	2405	6834	121

TAKEN UP.

STREETS.	CAST IRON.		CEMENT LINED.	
	6 in.	4 in.	6 in.	4 in.
Acushnet avenue, Bedford to Walnut,				1271
Cannon street, Water to Second,		390		
County street, South south,	29			
County street, South to 7½ feet north of Grinnell,			589	
French avenue, Cove south,		431		
Sixth street, from 14 feet south of Bedford to Grinnell,	955			
South street, County east,			36	
Washington street, County west,				23
Water street, from 12½ feet north of Cannon south,	421			
Water street, from 13 feet south of Gifford to Cove,	756			
Totals,	2161	821	625	1294

Total length laid in 1890, 12,715 feet = $2\frac{4081}{10000}$ miles.
Total length removed in 1890, 4901 feet = $0\frac{9284}{10000}$ miles.
Total length of pipe now in use, 330,218 feet = $62\frac{5411}{10000}$ miles.

TABLE D.

SMALL SIZED DISTRIBUTION PIPE LAID IN 1890.

STREETS.	CAST IRON.	LEAD.
	3 inch.	1 inch.
Blackburn street, Cedar Grove north,	254	
Myrtle street, from 60 feet south of Peckham south,		51
Totals,	254	51

Total length laid in 1890, 305 feet.
Previously laid, 5872 feet.
Total length in use Dec. 1, 1890, 6177 feet = $1\frac{17}{100}$ miles.

TABLE E.

Location of Stop Gates set in 1890.

STREETS.	SIZE.					
	20 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Acushnet avenue, north side Tarkiln Hill road,					1	
Acushnet avenue, south side Tarkiln Hill road,				1		
Acushnet avenue, south side Walnut,				1		
Ashland street, south side Durfee,		1				
Babbitt street, west side Dartmouth,					1	
Bedford street, west side Acushnet avenue,					1	
Beetle street, east side Acushnet avenue,					1	
Cannon street, east side Acushnet avenue,				1		
Cannon street, west side Water,				1		
Clinton street, east side Ash,					1	
County street, north side Grinnell,					1	
County street, at hydrant southwest corner Grinnell,					1	
County street, at hydrant northwest corner South,					1	
County street, south side South,	1					
Cove street, west side Water,		1				
French avenue, south side Cove,		1				
Hemlock street, south side Rivet,					1	
Madison street, west side Acushnet avenue,						1
Middle street, 102 feet east of Purchase,					1	
Nelson street, west side County,					1	
Newton street, north side Court,					1	
Purchase street, south side Penniman,			1			
Reed street, south side Kempton,					1	
Rock street, north side Coggeshall,					1	
Russell street, west side Acushnet avenue,				1		
Second street, south side Cannon,				1		
South street, east side County,				1		
Sixth street, at hydrant north of Grinnell,					1	
Trinity street, west side Cedar,					1	
Washington street, west side County,					1	
Water street, north side Coffin,					1	
Water street, north side Cannon,			1			
Water street, north side Cove,		1				
Willis street, west side County,					1	
Wing street, west side Sixth,				1		
Totals,	1	4	2	8	19	1

Removed.

Acushnet avenue, south side Walnut,	4-inch.
Cannon street, west side Water,	4-inch.
County street, south side South,	6-inch.
Cove street, west side Water,	6-inch.
French avenue, south side Cove,	4-inch.
Sixth street, north side Grinnell,	6-inch.
South street, east side County,	6-inch.
Washington street, west side County,	4-inch.
Water street, north side Cove,	6-inch.

Number of stop gates set in 1890,	35
Number removed in 1890,	9
	26
Number in use at date of last report,	643
Total number in use Dec. 1, 1890,	669

TABLE F.

Small Sized Stop Gates set in 1890.

STREETS.	LOCATION.	SIZE.
		3 inch.
Blackburn,	North side Cedar Grove,	1
	Total,	1

Number of small sized stop gates set in 1890,	1
Previously set,	62
Total number in use December 1, 1890,	63

TABLE G.

Private Stop Gates set in 1890.

STREETS.	LOCATION.	SIZE.	
		3 in.	2 in.
Acushnet avenue,	At Monte Pio Co-operative store,		1
Allen,	At J. S. Sisson's,		1
Hillman,	At St. Lawrence Church,	1	
Middle,	At Edison Electric Light Co.,	1	
Pleasant,	At Odd Fellows' Building,		1
Union,	At David B. Folger's,		1
	Totals,	2	4

Number of private stop gates set in 1890,	6
Previously set,	144
Total number in use December 1, 1890,	150

TABLE H.

Waste Gates set in 1890.

LOCATION.	SIZE.
	4 inch.
Acushnet avenue, at Cannon,	1
Arnold street, 82 feet east of Orchard,	1
Bedford street, at Acushnet avenue,	1
County street, at Grinnell,	1
County street, at Robeson,	1
Total,	5

Number set during 1890,	5
Removed. Acushnet avenue, south side Cannon, 4-inch,	1
	4
Previously set,	65
Total number in use December 1, 1890,	69

TABLE I.

Location of Hydrants set in 1890.

	Pressure in lbs.
Acushnet avenue, west side, 267 feet north of Tarkiln Hill road,	53
Acushnet avenue, northwest corner of Madison,	57
Acushnet avenue, northwest corner of Russell,	58
Acushnet avenue, northwest corner of Bedford,	60
Babbitt street, south side, west of Dartmouth,	42
Beetle street, south side, east of Acushnet avenue,	57
Bonney street, west side, 259 feet north of Rivet,	61
Cannon street, south side, 164 feet east of Second,	63
Cedar Grove street, southwest corner of County,	43
Cedar Grove street, south side, west of County,	40
Columbia street, south side, west of Clay,	46
County street, southwest corner of Grinnell,	61
County street, northwest corner of South,	62
Florence street, west side, 199.6 feet south of Kempton,	27
Fruit street, south side, 45 feet east of Mulberry,	47
Hillman street, southwest corner of Chancery,	29
James street, west side, 190.5 feet south of Union,	28
Katharine street, south side, 66.7 feet east of Crapo,	62
Larch street, south side, east of Hemlock,	51
Nelson street, south side, 354 feet west of County,	62
Oak street, west side, north of Grape,	42
Pope street, south side, east of Chestnut,	26
Reed street, west side, 207.8 feet south of Kempton,	18
Robeson street, south side, 382 feet west of Ashland,	20
Rock street, west side, north of Coggeshall,	62
Russell street, south side, 179 feet west of Sixth,	42
Shawmut avenue, west side, north of Austin,	13
Sisson street, northwest corner of Union,	25
Sixth street, west side, 194 feet north of Grinnell,	60
Trinity street, south side, west of Cedar,	19
Water street, west side, head of Leonard,	62
Water street, northwest corner of Cove,	62
Willis street, southwest corner of County,	26
Wing street, southwest corner of Sixth,	57

(The entire list, Post Hydrants.)

Taken Up.

Acushnet avenue, northwest corner of Madison,	Flush.
Acushnet avenue, northwest corner of Russell,	"
Acushnet avenue, northwest corner Bedford,	"
Cannon street, south side, 164 feet east of Second,	"
Chancery street, southwest corner of Hillman,	"
County street, northwest corner of Cedar Grove,	Post.
County street, southwest corner of Grinnell,	Flush.
County street, northwest corner of South,	"
Florence street, west side, 126 feet south of Kempton,	Post.
James street, west side, 102.5 feet south of Union,	"
Katharine street, south side, 212.5 feet east of Crapo,	"
Sisson street, west side, 120 feet south of Court,	"
Sixth street, northwest corner of Wing,	Flush.
Sixth street, west side, 194 feet north of Grinnell,	"
Water street, west side, head of Leonard,	"
Water street, west side, 285 feet south of Division,	"
Willis street, south side, 65 feet east of Reed's court,	Post.

Total number set during 1890,	34
Total number taken up during 1890,	17
To be added to total number last reported,	17
Number in use at date of last report,	460
Total number in use December 1, 1890,	477

TABLE J.

Statement of Work done by the Service Department for the year ending Dec. 1, 1890.

KIND AND SIZE.	Number of Services.	Length on Taker.	Length on City.
Lead pipe, $\frac{1}{2}$-inch, heavy,	85	757.0	1732.0
" " $\frac{5}{8}$-inch, heavy,	90	795.5	1954.5
" " $\frac{5}{8}$-inch, light,	66	890.5	1338.0
" " $\frac{3}{4}$-inch, heavy,	4	132.5	75.0
" " $\frac{3}{4}$-inch, light,	37	840.0	673.0
" " 1-inch, heavy,	3	42.0	60.0
Iron pipe, 2-inch,	4	88.5	
" " 3-inch,	1	53.0	
Totals,	290	3599.0	5832.5

Two $\frac{1}{2}$-inch heavy lead services have been taken up and replaced with $\frac{5}{8}$ heavy lead.

One $\frac{1}{2}$-inch heavy lead service has been taken up and replaced with $\frac{3}{4}$ heavy lead.

One $\frac{5}{8}$-inch heavy lead service has been taken up and replaced with $\frac{3}{4}$ heavy lead.

Extensions made to Services Previously Laid.

KIND AND SIZE.	Number.	Length.
Cast iron pipe, 3-inch,	1	28
Lead pipe, $\frac{5}{8}$ light lead,	1	100
" " made by owner,	6	
Totals,	8	128

Length of service pipe laid during the year, 9560 feet $= 1\frac{8106}{100000}$ miles.
Total number of services in use December 1, 1890, 6394.

TABLE K.

Complete List of Pipes laid previous to Dec. 1st, 1890, their Location and Sizes.

NOTE.—All lines of cement lined pipe are marked in this table with an asterisk (*).

STREETS.	LENGTH OF LINES IN FEET.								
	30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Acushnet avenue, Delano south,									107
Acushnet av., Delano to Blackmer,								440	
Acushnet avenue, Blackmer to Rivet,									289
Acushnet avenue, 353 feet south of Potomska to Bedford,								2578	
Acushnet av., Bedford to Kempton,							3549		
Acushnet av., Kempton to Wamsutta,								3856	
Acushnet av., Wamsutta to 16.5 feet north from south line Coggeshall,							2732		
Acushnet avenue, 16.5 feet north from south line Coggeshall to 3.5 feet north of Nash road,						3981			
Acushnet avenue, 3.5 feet north of Nash road to Tarkiln Hill road,							6009		
Acushnet avenue, Tarkiln Hill road north,								302	
Allen, County to Bonney,								579*	
Allen, Bonney to Orchard,								198	
Allen, Orchard west,					47				
Allen, 34.5 feet west of Orchard to Borden,				719					
Allen, Orchard to 159 feet east of Page,									1681
Anthony, Grove to Bedford,									405*
Arnold, Cottage to 82 feet east of Orchard,							576		
Arnold, Lincoln to Tremont,							1864		
Arch, Arnold north,									419
Arch, 393 feet north of Arnold to 3 feet south of Union,								208	
Arch, 3 feet south of Union to Union street main,									17
Ash, Bedford to Kempton,				3521					
Ash, Mill to 23.5 feet north of Hillman,								558	
Ash, Maxfield to Sycamore,								244	
Ashland, Robeson to Durfee,					1130*				
Ashland, 10.7 feet north from south line Linden to Durfee,		144							
Ashland, 24-inch main in Durfee street to 12 feet north of Durfee,							28		
Atlantic, Arnold south,								201	
Atlantic, Arnold north,								417	
Austin, Purchase to Shawmut av.,								3311	
Austin court, Hazard to Austin,									402
Babbitt, Dartmouth west,								240	
Bay, Cottage to Ward,								504	
Beach, Kempton to Mill,								196	
Bedford, Acushnet avenue to 2 feet east of Sixth,								707*	
Bedford, 2 feet east of Sixth to 46 feet west of Sixth,								88	
Bedford, 46 feet west of Sixth to near west line County,								334*	
Bedford, near west line County to Anthony,									890*
Bedford, Anthony to 36.5 feet west of Borden,									574

List of Pipes — *Continued.*

STREETS.	LENGTH OF LINES IN FEET.								
	30in.	24in.	20in.	16in.	12in.	10in.	8in.	6in.	4in.
Bedford, Borden to Ash,				295					
Beetle, Acushnet avenue east,								129	
Bethel, Union to William,									412
Blackmer, 24 feet east of Front east,									552
Blackmer, Front east,								50	
Blackmer, Front to Second,							617		
Blackmer, Second to County,								564	
Bolton road, Rivet south,						2072			
Bonney, Rivet north,								286	
Bonney, 206 feet south of Rockland to Washington,									1057
Bonney, Washington to Allen,									834*
Borden, Dartmouth to Allen,						687			
Borden, Allen to Bedford,				398					
Bowditch, Logan to Weld,								378	
Bowditch, Weld to 243 feet north of Cedar Grove,									1027
Bridge avenue, Front east,								359	
Brownell, Court south,								158	
Campbell, Acushnet avenue west,									132
Campbell, Purchase to 109½ feet west of County,									1232
Campbell, Chestnut to Cedar,								595	
Campbell, Cedar to 200 feet west of Emerson,									697
Cannon, Acushnet avenue to Water,							609		
Cedar, Court to Kempton,								1050	
Cedar, Kempton to Durfee,				4644					
Cedar Grove, Front east,									71
Cedar Grove, Front to Acushnet av.,								741	
Cedar Grove, Acushnet avenue to 396 feet west of Bowditch,									671
Cedar Grove, Purchase to State,						306			
Cedar Grove, State to 185 feet west of County,								413	
Centre, 86 feet east of Water east,									352
Chancery, Arnold north,									434
Chancery, 221 feet south of Elm to Middle,								446	
Chancery, Kempton south,								120	
Chancery, Kempton to Hillman,									706
Chancery, 178 feet south to 264 feet north of Parker,								482	
Cherry, Sixth west,									26
Cherry, County east,									277
Chestnut, Kempton to Parker,									2436
Chestnut, Parker to Locust,								543	
City wharf, Water east,									29
Clay, Oak north,								240	
Common, north line Pearl at Pleasant to south line Pope at State,			491						
Clark, Purchase to County,									602
Clark, County west,								191	
Clinton, 198 feet east of Orchard to Cottage,									691
Clinton, Ash west,									257
Clinton, Ash east,								267	
Coffin av., Acushnet av. east,								385	
Coffin av., Acushnet av. to Church,								1496	
Coffin avenue, Church to Purchase,							163		
Coffin, Water east,									290
Coffin, First to Second,									211
Coggeshall, Acushnet av. to Rock,								996	
Coggeshall, Purchase to County,								359	

List of Pipes — *Continued.*

STREETS.	LENGTH OF LINES IN FEET.								
	30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Columbia, Clay north,								83	
Commercial, Front east,									165
Commercial, Water east,									97
Cottage road, Bolton road west,								454	
Cottage, Dartmouth to 16-inch main Allen street,								478	
Cottage, 4-inch main in Allen to Bedford,								384	
Cottage, Bedford north,									169
Cottage, Grove to Court,									2078*
Cottage, Kempton south,								29	
Cottage, Kempton to Maxfield,									1013*
Cottage, Maxfield to Smith,									595
Cottage, Campbell south,								83	
Cottage, 89 feet south to 187 feet north of Willis,								316	
Cottage, Locust north,									386
County, 8 feet south of north line Cove road to Cove,								397	
County, Cove to Rivet,							1579		
County, Rivet to 15 feet south of South,								1321	
County, 15 feet south of South to Grinnell,			579						
County, Grinnell to 7½ feet north of Grinnell,								39	
County, 7½ feet north of Grinnell to Wing,								566*	
County, Wing to Allen,							47		
County, Allen to Union,							2654*		
County, Union to Hillman,						2059*			
County, Hillman to Robeson,					2808*				
County, Robeson to Linden,								1088	
County, Linden north,								406	
County, 117½ feet south of Weld to Clark,								616	
County, Penniman south,								17	
County, Cedar Grove north,								72	
County, 91 feet south to 202 feet north of Coggeshall,								343	
Court, County to Cottage,							768*		
Court, Cottage to Cedar,								357*	
Court, Cedar to 89 feet west of Emerson,									587*
Court, 89 feet west of Emerson to Tremont,									1153
Court, Tremont to 300 feet east of Reed,							1345		
Cove, 752 feet east of Water to County,								1549	
Crapo, Thompson south,								162	
Crapo, Thompson to Washington,									1201
Crapo, Washington to Grinnell,								233	
Dartmouth, 311 feet south of Rivet to 38 feet north of Rockland,							1499		
Dartmouth, 10 feet west of Oak to Fair,								463	
Dartmouth, Fair to Borden,						205			
Dartmouth, Borden to Orchard,								722	
Delano, Front to County,								1050	
Division, Water to 133 feet west of Second,								554	
Division, County to 5 feet east of Crapo,								1080	
Dover, Second to Acushnet avenue,									229
Durfee, Ashland to Mt. Pleasant,		257			240*				

List of Pipes — *Continued.*

STREETS.	LENGTH OF LINES IN FEET.								
	30in.	24in.	20in.	16in.	12in.	10in.	8in.	6in.	4in.
Durfee, Mt. Pleasant to Cedar,				493					
Durfee, Cedar to Shawmut avenue,							1172		
Durfee, Shawmut avenue west,								20	
Eighth, Spring to Union,									256*
Eighth, Union to Elm,									740
Elm, Water to Purchase,									840
Elm, Purchase to County,									1247*
Elm, County to Ash,									1378
Elm, Park west,								100	
Elm, 59 feet west to 67 feet east of Newton,								166	
Elm, Rounds east,								218	
Elm, Reed to 84 feet east of Palmer,								344	
Emerson, Union south,									82
Emerson, Court north.								141	
Emerson, Middle to Kempton,									355
Fair, Sears to Dartmouth,								333	
Fifth, Grinnell to Bedford,								983	
Fifth, Bedford to Walnut,									1288
Fifth, Walnut to School,								379	
Fifth, School to Union,									520
First, 148 feet south of Delano to Howland,									3086
First, Coffin to Union,									1467
Florence, Court north,								247	
Florence, Kempton south,								215	
Florence, Kempton to 181 feet north of North,							613		
Forest, County to Bonney,									649
Foster, Middle to Maxfield,									1393*
Fourth, 141 feet south of Thompson to South,									1018
Fourth, South to Grinnell,								467	
Fourth, Grinnell to Union,							3192		
Franklin, Pleasant to 133 feet west of State,									472
French avenue, Cove to 4 feet north of south line Social,					447				
French avenue, 4 feet north of south line Social south,									239
Front, Delano to 1 foot south of north line Blackmer,							454		
Front, Potomska to south line Grinnell,									1057
Front, south line Grinnell to Grinnell street main,								14	
Front, Grinnell to Howland,									575
Front, Walnut to 87 feet north of Middle,								1998	
Front, Wamsutta to Logan,							1050		
Front, Logan to Kilburn,								383	
Front, Kilburn to Hicks,							95		
Front, Hicks to Washburn,								213	
Front, 120 feet south to 237 feet north of Cedar Grove,								397	
Fruit, 44 feet east of Mulberry to 125 feet east of Hemlock,								482	
Gammon's lane, Linden court to Ashland,									502
Geo. Howland's wharf, Water east,									176
Gifford, Water east,						727			
Grape, Oak to 518½ feet west of Lewis,								721	
Greene, Allen to Bedford,									387
Griffin, Water to Acushnet avenue,									619
Grinnell, 16 feet west from east line Prospect east,							275		

List of Pipes — *Continued.*

STREETS.	LENGTH OF LINES IN FEET.								
	30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Grinnell, 16 feet west from east line Prospect to Water,						420			
Grinnell, Water to Orchard,					2383				
Grinnell, Orchard to Dartmouth,									418
Grove, Anthony to Cottage,									219*
Grove, Ash east,								321	
Hall, Rockland to Thompson,								407	
Hall's court, William south,									219
Harmony, Social south,								278	
Harrison, Oak to Hickory,								358	
Hawthorn, County to Orchard,									560
Hawthorn, Orchard to Cottage,									472*
Hawthorn, Cottage to Page,									1421
Hawthorn, Page to 301 feet west of Brigham,							1433		
Hazard, Purchase to County,									950
Hazard court, Austin to Hazard,									395
Hazard wharf, Front east,									30
Hemlock, Fruit to Larch,								400	
Hickory, Dartmouth to Harrison,								276	
Hicks, Front to Acushnet avenue,							870		
High, Second to County,									1699
Hillman, Water to Purchase,							838		
Hillman, Purchase to 30 feet east of Pleasant street main,							223*		
Hillman, Pleasant east,						30			
Hillman, Pleasant to County,							976*		
Hillman, County west,								101	
Hillman, Summer to Cottage,								481	
Hillman, Cedar west,									109
Hillman, Ash to 101 feet west of Chancery,								565	
Hill, Mill to Hillman,									545
Howard, Cedar Grove north,									293
Howland, Prospect to Acushnet av.,									1034
Hunter, Kempton to North,								406	
Irving court, Hawthorn north,									280
James, Union south,								209	
Jenney, Court to Kempton,							1048		
Katharine, County west,								834	
Kempton, Purchase to 21 feet east of Pleasant street main,									226
Kempton, Pleasant east,						21			
Kempton, Pleasant to Foster,									208
Kempton, Foster to County,									749*
Kempton, County to Cottage,								823*	
Kempton, Cottage to Cedar,								365	
Kempton, Cedar to Ash,				224					
Kempton, Ash to 16 feet east of Rockdale avenue,							3547		
Kilburn, Front east,							763		
Liberty, Kempton south,									659
Larch, Hemlock east,								156	
Lincoln, Arnold to Union,									640
Linden, Purchase to east line State,								488	
Linden, east line State to State street main,						26			
Linden, State to Ashland,				1028					
Linden court, Linden to Gammon's lane,									274
Lindsey, Morgan south,									79
Lindsey, Morgan to Kempton,									800
Locust, County to Richmond,							1656		
Logan, Front to Purchase,								1336	
Lombard, Rockland south,									225
Madison, Water to 88 feet west of Fourth,									962

List of Pipes — *Continued.*

STREETS.	LENGTH OF LINES IN FEET.								
	30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Madison, 12 feet east of Sixth west,							141		
Madison, County to Orchard,								524*	
Maitland, Cedar west,								320	
Maple, Cottage to Ash,								605	
Market, Pleasant to Sixth,									244
Margin, Cove south,									409
Marvin, Acushnet avenue east,									269
Maxfield, Second east,									188
Maxfield, Second to Acushnet av.,								245	
Maxfield, Acushnet av. to Foster,									720
Maxfield, Foster to State,									209*
Maxfield, State to Thomas,									410
Maxfield, Thomas to County,								160	
Maxfield, County to Cottage,							788*		
Maxfield, Cottage to Cedar,							353		
Maxfield, Cedar to 92 feet west of Ash,							345		
Mechanics lane, Pleasant to Eighth,									749
Merrimac, Purchase to State,						562			
Merrimac, State west,							228		
Merrill's wharf, Front east,									233
Middle, Front to Water,								280	
Middle, Water to County,								2061*	
Middle, County to Summer,								307	
Middle, Summer to Ash,									1079
Middle, Emerson to Chancery,									189
Middle, Rounds east,								100	
Mill, Acushnet avenue to Purchase,									251
Mill, Purchase to 46 feet west of Ash,								2681	
Mill, Park west,							189		
Mill, Florence west,								258	
Mill, Beach west,								37	
Morgan, County to Ash,									1362
Morgan, Lindsey west,									69
Mosher, County west,									591
Mt. Pleasant, Gate house to Durfee,		1650		105	42				
Mt. Pleasant, Gate house to Durfee,					1626*				
Mt. Vernon, Mt. Pleasant west,									371
Nelson, County west,								373	
Newton, Elm to Kempton,								567	
Newton, Court north,								126	
North, Water to Second,								347	
North, Second to Purchase,									495
North, Purchase to 30 feet east from Pleasant street main,									222*
North, Pleasant east,							30		
North, Pleasant to County,									959*
North, Summer to Ash,								1074	
North, Chancery to 2 feet east of Newton,								661	
North, Florence west,									173
North, Hunter west,								194	
Oak, Dartmouth to 141 feet north of Grape,								821	
Ocean, Arnold north,									240
Ocean, Arnold south,								200	
Old Point road, French avenue east,									711
Orchard, Arnold to Clinton,								189	
Orchard, Clinton to Madison,									365
Orchard, Madison to Hawthorn,									327*
Orchard, Allen to Grinnell,					610				
Orchard, Washington south,									192
Palmer, Kempton to Elm,								570	
Park, North south,							68		
Park, Mill to 206 feet north of Arnold,							1941		
Parker, County to Oak Grove cemetery,							2834		

List of Pipes — *Continued.*

STREETS.	LENGTH OF LINES IN FEET.								
	30in.	24in.	20in.	16in.	12in.	10in.	8in.	6in.	4in.
Page, Hawthorn south,							444		
Pearl, Acushnet avenue to Purchase,									285
Pearl, Pleasant east,						40			
Pearl, Pleasant to State,									327
Peckham, Pumping Station to Distributing Reservoir,	1879	322		2135	28				
Penniman, Purchase to County,									630
P. & R. Coal and Iron Co. wharf, Front east,									233
Pine, Water to Cross,								290	
Pleasant, Union to 2 feet south of south line William,									392
Pleasant, 2 feet south of William north,					18			15	
Pleasant, William to Pearl,			3252						
Pleasant, Pope to Weld,								2365	
Pope, State to County,									444
Pope, Chestnut east,								107	
Poplar road, Bolton road west,								450	
Potomska, Second to Water,							415		
Potomska, Water to 328 feet east of Prospect,						696	29	26	
Potomska, Second to Acushnet av.,									247
Prospect, Howland to north line Grinnell,									551
Prospect, north line Grinnell to Grinnell street main,							26		
Prospect, Grinnell south,						25			
Prospect, 11 feet south of Grinnell to Potomska,									1016
Purchase, Coffin avenue to Deane,							318		
Purchase, Deane to force main,				2247					
Purchase, Coggeshall to Cedar Grove,								613	
Purchase, Pumping Station to Pearl,						4096			
Purchase, Pearl to Union,						3663*			
Reed, Kempton south,								222	
Reynolds, Linden to 268 feet north of Weld,								817	
Ricketson's court, Sixth west,									321
Richmond, Parker to Locust,								530	
Richmond, Locust north,								140	
Rivet, Water to County,							1097		
Rivet, County to Bolton road,						1816			
Rivet, Bolton road to Dartmouth,							1276		
Robeson, County to Ashland,					375*				
Robeson, Ashland west,								397	
Robeson, 7 feet east to 352 feet west of Cedar,								399	
Rockland, County to 13½ feet west of Orchard,							1290		
Rockland, Dartmouth east,							460		
Rock, Washburn south,									192
Rock, Coggeshall north,								167	
Rodman, Water to 181 feet east of Front,									495
Rounds, Kempton south,									654
Russell, Acushnet avenue to Fourth,							252		
Russell, Fourth to Sixth,									480
Russell, Sixth west,								194	
Sawyer, Acushnet avenue east,							1878		
Sawyer, Acushnet av. to Purchase,							1415		
School, Front west,									174
School, First to Second,									207
School, Second to Acushnet avenue,								221	
School, Acushnet avenue to Fourth,									250
School, Fourth to Sixth,								501	

List of Pipes — *Continued.*

STREETS.	LENGTH OF LINES IN FEET.								
	30in.	24in.	20in.	16in.	12in.	10in.	8in.	6in.	4in.
School, Sixth west,								22	
School, 8 feet west of Sixth to Seventh,									228*
School, Seventh to County,									371
Sears, Washington to Fair,								288	
Sears court, Purchase west,									202
Second, Division south,							184		
Second, Delano north,							11		
Second, Blackmer south,							329		
Second, Blackmer to Cannon,							3389		
Second, Cannon to William,									2210
Second, William to Maxfield,								1963	
Seneca, Acushnet avenue east,								308	
Seventh, Union south,								18	
Seventh, Spring to Walnut,									645*
Seventh, Walnut to Cherry,									534
Sherman, County to Bonney,									722
Shawmut avenue, 84 feet south to 196 feet north of Austin,							322		
Shawmut avenue, Parker north,							533		
Shawmut avenue, Parker to Smith,								867	
Sixth, Grinnell to William,			3581						
Sixth, William street main to 2 feet north of William,								33	
Sixth, 2 feet north of William to Middle,									533*
Sisson, Court to Union,								263	
Smith, County to 462 feet west of Emerson,								2165	
Social, French avenue east,								237	
South Beach road, Bolton road west,							346		
South, Prospect to Water,								412	
South, Water west,							20		
South, 6 feet west of Water to 6 feet east of County,								1043*	
South, 6 feet east of County to County street main,							36		
Spring, First east,								14	
Spring, Second west,									174
Spring, Acushnet avenue east,								53	
Spring, Fourth to Seventh,									757
Spring, Seventh to Eighth,									255*
Spruce, Parker north,								253	
Spruce, North to Smith,									1189
State, Hillman to Maxfield,								299	
State, Maxfield to Willis,									1026*
State, Willis to Pearl,									263
State, south line Pope to Linden,			1827						
State, Linden to force main,				1786					
Steamboat wharf, Front east,									145
Summer, Elm to Kempton,								574	
Summer, North to Parker,									2018
Sycamore, Pleasant to State,								418	
Sycamore, State to Chestnut,									1115
Sycamore, Spruce to 69 feet west of Ash,									503
Taber's wharf, Front east,									223
Thomas, Hillman to Sycamore,									615
Thompson, County to Hall,									455
Thompson, Hall west,								11	
Tremont, Hawthorn to Court,							1672		
Trinity, 11 feet east to 146 feet west of Cedar,								171	
Union, Front to Water,									284
Union, Water to 2 feet east of Sixth,							1333*		
Union, 2 feet east of Sixth to Sixth street main,						28			

List of Pipes — *Concluded.*

STREETS.	LENGTH OF LINES IN FEET.								
	30in.	24in.	20in.	16in.	12in.	10in.	8in.	6in.	4in.
Union, Sixth west,							19		
Union, 5 feet west of Sixth to County,							725*		
Union, County to Lincoln,									1001
Union, Lincoln to 233 feet west of Ash,								594	
Union, Park west,								358	
Union, Tremont to James,								297	
Union, Sisson east,								105	
Walden, Hillman to Sycamore,									615
Wall, Acushnet avenue east,									274
Walnut, Front to Acushnet avenue,								890	
Walnut, Acushnet avenue to 12 feet east of Sixth,								710*	
Walnut, 12 feet east to 7 feet west of Sixth,								59	
Walnut, 7 feet west of Sixth to County,								494*	
Wamsutta, Purchase to Front,							1250		
Warwick, Rockland south,									289
Washburn, Acushnet av. to Front,								858	
Washburn, Front to Rock,									407
Washington, Fourth to 5 feet west of County,								385	
Washington, 5 feet west of County to Bonney,									924*
Washington, Bonney to Sears,								438	
Washington, Sears to Dartmouth,									388
Ward, Bay south,								75	
Welcome, French avenue east,								241	
Water, Hillman to 12½ feet north of Cannon,								3831	
Water, 12½ feet north of Cannon to 4½ feet north of south line Leonard,						421			
Water, 4½ feet north of south line Leonard to Grinnell,								1035	
Water, Grinnell to Cove,					3562				
Weld, Bowditch west,							113		
Weld, Pleasant to 121 feet west of State,						386			
Weld, County west,							82		
Weld, Reynolds east,							13		
William, Water to Purchase,									835
William, Purchase to 15 feet east of So. Pleasant,									237*
William, 15 feet east of Pleasant to Pleasant street main,						41			
William, Pleasant to Sixth,			258						
William, Sixth to 6 feet west of west line Sixth,					15			19	
William, 6 feet west of Sixth to County,									713*
Willis, Acushnet avenue to State,								944	
Willis, State to County,								338*	
Willis, Summer to County,								539	
Willis, Summer to Chestnut,									240
Willis, Chestnut to 145 feet west of Emerson,								1228	
Wilson, Austin north,								173	
Winsor, County west,								882	
Wing, Acushnet avenue to County,							971		
Cement lined pipe,					6179	5722	7467	8556	16421
Cast iron pipe,	1879	2373	9988	17595	7152	16586	61942	89199	79159
Totals,	1879	2373	9988	17595	13331	22308	69409	97755	95580

Summary.

	30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Previous to 1890:									
Cement,					6179	5722	7467	9181	17715
Cast iron.	1879	2373	8453	17595	5944	15974	59537	84526	79859
Cast iron laid in 1890,			1535		1208	612	2405	6834	121
Total pipe laid,	1879	2373	9988	17595	13331	22308	69409	100541	97695
Cement removed in 1890,								625	1294
Cast iron removed in 1890,								2161	821
Total pipe now in use,	1879	2373	9988	17595	13331	22308	69409	97755	95580

Total length laid in 1890, 12,715 feet = $2\frac{4081}{10000}$ miles.
Total length removed in 1890, 4901 feet = $0\frac{9284}{10000}$ mile.
Total length of pipe now in use, 330,218 feet = $62\frac{5411}{10000}$ miles.

TABLE L.

Complete list of Small Sized Distribution Pipe.

STREETS.	Cast Iron.		Wrght. Iron.	Lead.			
	3 in.	2 in.	2 in.	2 in.	1 in.	¾ in.	⅝ in.
Blackburn st., Cedar Grove north,	254						
Bridge street, from street on Fish Island to Yacht Club House,			1081	20			
Briggs court, Allen north,		88					
Central wharf, end of 4-inch pipe east,	45						
Chancery street, Arnold south,							120
Cherry st., east line Seventh, east 37 ft., thence to south line Cherry,		51					
Cornell place, Bowditch west,		224					
Fish Island, from siphon to Bridge street,			129				
Front street, Potomska south,						55	
Fulton court, Logan north,		34					
Hampton court, Logan north,		34					
Hillman street, Summer east,					110		
Hillman court, Hillman st. north,						138	
Holden court, Cottage west.		112					
Kempton st., Acushnet av. east,		151					
Maiden lane, First street west,		172					
Merrimac street court, Merrimac north,					149		
Mt. Pleasant court, Mt. Pleasant street west,					145		
Myrtle street, Peckham south,					125		
North Oak street, Pope north,		173					
Oneko court, Coffin avenue north,	216						
Pope street, Purchase west,							92
Pope street, from end of 6-inch pipe at State street east,						119	
Potomska, Acushnet avenue west,							84
Rockland street, Fourth west,						135	
Seventh street, Bedford north,		165					
Siphon from Bridge abutment to Fish Island,				402			
Smith street, County east,		233					
Smith street court, Smith st. north,	92	78					
Sullivan street, Middle north,		168					
Swamp street, Cedar to Sullivan,		254					
Taber's wharf, end of 4-inch pipe east,	4						
Turner's court, Acushnet av. east,					229		
Walden street, Sycamore north,						94	
Ward street, Allen north,						186	
Waverly street, Allen north,	216						
	827	1937	1210	422	758	727	296

TABLE M.

List of Stop Gates set previous to Dec. 1, 1890.

STREET.	LOCATION.	SIZE.								
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Acushnet av.,	0.2 feet north of Tarklin Hill road; 17.6 feet east from west line Acushnet avenue,								1	
Acushnet av.,	On south line Tarkiln Hill road, 14 feet east from west line Acushnet avenue,							1		
Acushnet av., at hydrant,	6.2 feet south from south line Tarkiln Hill road; 10.5 east from west line Acushnet av.,								1	
Acushnet av., at hydrant,	503 feet south from south line Tarkiln Hill road; 11 feet east from west line Acushnet av.,								1	
Acushnet av., at hydrant,	1000 feet south from south line Tarkiln Hill road; 10 feet east from west line Acushnet av.,								1	
Acushnet av.,	893.7 feet north of North Belleville road; 15 feet east from west line Acushnet avenue,							1		
Acushnet av., at hydrant,	608.5 feet north of North Belleville road; 9.5 feet east from west line Acushnet avenue,								1	
Acushnet av., at hydrant,	14.3 feet north from north line North Belleville road; 9.7 feet east from west line Acushnet avenue,								1	
Acushnet av.,	2.2 feet south from south line North Belleville road; 15 feet east from west line Acushnet avenue,							1		
Acushnet av., at hydrant,	601 feet south of North Belleville road; 9.7 feet east from west line Acushnet avenue,								1	
Acushnet av., at hydrant,	606 feet north of Shaw; 9.7 feet east from west line Acushnet av.,								1	
Acushnet av., at hydrant,	10.2 feet north from north line of Shaw; 11.5 feet east from west line Acushnet avenue,								1	
Acushnet av.,	39.2 feet south of Shaw; 15 feet east from west line Acushnet avenue,							1		
Acushnet av., at hydrant,	603.5 feet north from north line South Belleville road; 9.5 feet east from west line Acushnet avenue,								1	
Acushnet av.,	1.7 feet north from north line South Belleville road; 15.0 feet east from west line Acushnet avenue,							1		

List of Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE.								
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Acushnet av.,	8.4 feet south from sonth line South Belleville road; 12.0 feet east from west line Acushnet avenue,								1	
Acushnet av., at hydrant,	2.5 feet north from north line Nash road; 9.5 feet east from west line Acushnet avenue,								1	
Acushnet av.,	1.2 feet south from north line Nash road; 15.5 feet east from west line Acushnet avenue,						1			
Acushnet av.,	1.2 feet north from south line Nash road; 15.5 feet east from west line Acushnet avenue,						1			
Acushnet av., at hydrant,	1.6 feet north from north line Hathaway avenue; 11.0 feet east from west line Acushnet avenue,								1	
Acushnet av., at hydrant,	36.3 feet north from south line Davis; 9.5 feet east from west line Acushnet avenue,								1	
Acushnet av.,	4.7 feet south from south line Davis; 15 feet east from west line Acushnet avenue,						1			
Acushnet av., at hydrant,	1.4 feet south from south line Phillips avenue; 9.5 feet east from west line Acushnet av.,								1	
Acushnet av.,	6.1 feet north from north line Deane; 15 feet east from west line Acushnet avenue,						1			
Acushnet av.,	2.8 feet south from south line Deane; 15.0 feet east from west line Acushnet avenue,						1			
Acushnet av., at hydrant,	5.5 feet south from south line Deane; 10 feet east from west line Acushnet avenue,								1	
Acushnet av., at hydrant,	445.0 feet north from north line Sawyer; 9.5 feet east from west line Acushnet avenue,								1	
Acushnet av.,	198.2 feet north from north line Sawyer west; 15.5 feet east from west line Acushnet av.,						1			
Acushnet av.,	0.9 foot north from north line Coggeshall; 17.7 feet east from west line Acushnet avenue,						1			
Acushnet av.,	117.5 feet north of Washburn; 17.6 feet east from west line Acushnet avenue,							1		
Acushnet av.,	1.7 feet north from north line Logan; 16 feet east from west line Acushnet avenue,							1		

LIST OF STOP GATES — *Continued.*

STREETS.	LOCATION.	SIZE.								
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Acushnet av.,	3.4 feet south from south line Logan; 16 feet east from west line Acushnet avenue,							1		
Acushnet av., at hydrant,	335 feet south from south line Logan; 1.2 feet east from west line Acushnet avenue,									1
Acushnet av., at hydrant,	373.3 feet north from north line Wamsutta; 6.7 feet east from west line Acushnet avenue,									1
Acushnet av.,	10.4 feet south from south line Wamsutta; 17 feet east from west line Acushnet avenue,								1	
Acushnet av.,	2 feet south from south line Campbell; 14 feet east from west line Acushnet avenue,								1	
Acushnet av.,	6.4 feet north from north line Hillman; 14 feet east from west line Acushnet avenue,								1	
Acushnet av.,	6.3 feet south from south line Hillman; 14 feet east from west line Acushnet avenue,								1	
Acushnet av.,	On north line Kempton; 14 feet east from west line Acushnet avenue,								1	
Acushnet av.,	On south line Elm, west; 13.7 feet east from west line Acushnet avenue,							1		
Acushnet av.,	1.4 feet north from north line Union; 13.8 feet east from west line Acushnet avenue,							1		
Acushnet av.,	On south line Union; 15 feet east from west line Acushnet av.,							1		
Acushnet av.,	On north line Walnut; 14 feet east from west line Acushnet avenue,							1		
Acushnet av.,	1 foot south from south line Walnut; 14.6 feet east from west line Acushnet avenue,							1		
Acushnet av.,	4.5 feet north from south line Bedford; 13 feet east from west line Acushnet avenue,								1	
Acushnet av.,	On north line Grinnell; 14 feet east from west line Acushnet avenue,								1	
Acushnet av.,	4 feet south from north line South; 14 feet east from west line Acushnet avenue,								1	
Acushnet av.,	On south line South; 14 feet east from west line Acushnet av.,								1	

List of Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE.								
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Acushnet av.,	3 feet south from south line Rivet; 13 feet east from west line Acushnet avenue,									1
Allen,	On west line County; 14 feet north from south line Allen,								1	
Allen,	On east line Orchard; 14 feet north from south line Allen,								1	
Allen,	43.4 feet west from west line Orchard; 14 feet north from south line Allen,				1					
Arnold,	On east line Ash; 14 feet north from south line Arnold.							1		
Arnold,	5 feet west from west line Ash; 14.8 feet north from south line Arnold,							1		
Ash,	1 foot south from south line Hillman; 14 feet east from west line Ash,								1	
Ash,	7 feet south from south line Kempton; 20 feet east from west line Ash,				1					
Ash,	On south line Court; 14 feet east from west line Ash,				1					
Ash,	On south line Arnold; 14 feet east from west line Ash,				1					
Ash,	2 feet north from south line Hawthorn; 13.6 feet east from west line Ash,				1					
Ashland,	On south line Durfee; 10.8 feet east from west line Ashland,					1				
Ashland,	On north line Durfee; 13 feet east from west line Ashland,							1		
Atlantic,	1 foot north from south line Arnold; 14 feet east from west line Atlantic,								1	
Atlantic,	On north line Arnold; 14 feet east from west line Atlantic,								1	
Austin,	1.3 feet west from west line Purchase; 17.4 feet north from south line Austin,								1	
Austin,	On east line State; 15 feet north from south line Austin,								1	
Austin,	On west line State; 16 feet north from south line Austin,								1	
Austin,	1 foot west from east line Ashland; 14 feet north from south line Austin,								1	
Austin,	On west side Ashland; 13 feet north from south line Austin,								1	

LIST OF STOP GATES — *Continued.*

STREETS.	LOCATION.	SIZE.								
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Austin,	On east line Cedar; 12 feet north from south line Austin,								1	
Austin,	On west line Cedar; 10.8 feet north from south line Austin,								1	
Austin,	On east line Shawmut av.; 14.3 feet north from south line Austin,								1	
Austin court,	1 foot north from north line Hazard; 16 feet east from house west side Austin court,									1
Babbitt,	On west line Dartmouth; 14.1 feet north from south line Babbitt,								1	
Bay,	On east line Borden; 13.4 feet north from south line Bay,								1	
Bay,	1 foot east from west line Borden; 14 feet north from south line Bay,								1	
Bedford,	5.3 feet east from west line Acushnet av.; 14.9 feet north from south line Bedford,								1	
Bedford,	6 feet west from west line Fourth; 14.5 feet north from south line Bedford,								1	
Bedford,	On east line Sixth; 14 feet north from south line Bedford,								1	
Bedford,	On west line Sixth; 14 feet north from south line Bedford,								1	
Bedford,	2.4 feet west from east line County; 14 feet north from south line Bedford,								1	
Bedford,	On west line County; 14 feet north from south line Bedford,									1
Bedford,	17.4 feet east from west line Borden; 14 feet north from south line Bedford,									1
Beech,	2 feet south from north line Kempton; 14 feet east from west line Beech,								1	
Beetle,	0.8 foot west from east line Acushnet av.; 19 feet north from south line Beetle,								1	
Bethel,	2.5 feet north from north line Union; 14 feet east from west line Bethel,									1
Blackmer,	On east line Front; 18.6 feet north from south line Blackmer,								1	
Blackmer,	On east line Water; 9.2 feet north from south line Blackmer,							1		

List of Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE.								
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Blackmer,	0.5 foot west from west line Water; 14 feet north from south line Blackmer.							1		
Blackmer,	1 foot west from east line Second; 14 feet north from south line Blackmer,							1		
Blackmer,	On east line County; 14 feet north from south line Blackmer,								1	
Bolton road,	0.2 foot south from south line Rivet west; 72.1 feet east of angle in Rivet street,						1			
Bolton road,	24.4 feet north from north line north house; 38.2 feet east from east line north house,						1			
Bonney,	On north line Grinnell; 14 feet east from west line Bonney,									1
Bonney,	1 foot north from south line Grinnell; 14 feet east from west line Bonney,									1
Bonney,	15 feet south from south line Washington; 14 feet east from west line Bonney,									1
Bonney,	On north line Rivet; 18 feet east from west line Bonney,								1	
Borden,	4.1 feet south from south line Bedford; 7.5 feet east from west line Borden,				1					
Borden,	On south line Allen; 12.7 feet east from west line Borden,						1			
Borden,	On west line Dartmouth; 14.4 feet north from south line Borden,						1			
Bowditch,	0.5 foot north from north line Logan; 14 feet east from west line Bowditch,								1	
Bowditch,	On north line Weld; 17.5 feet east from west line Bowditch,									1
Bridge,	319 feet east from east line Front; 5.2 feet north from south line Bridge; 13.2 feet west from west line drawer,									1
Brownell,	On south line Court; 18 feet east from west line Brownell,								1	
Campbell,	9.5 feet west from west line Purchase; 14 feet north from south line Campbell,									1
Campbell,	On east line Pleasant; 14.8 feet north from south line Campbell,									1

LIST OF STOP GATES — *Continued.*

STREETS.	LOCATION.	SIZE.							
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Campbell,	On west line Pleasant; 14 feet north from south line Campbell,									1
Campbell,	On east line County; 14 feet north from south line Campbell,									1
Campbell,	On west line County; 14.8 feet north from south line Campbell,									1
Campbell,	On west line Chestnut; 13.7 feet north from south line Campbell,								1	
Campbell,	0.5 foot east from east line Cedar; 13.7 feet north from south line Campbell,								1	
Campbell,	On west line Cedar; 13.6 feet north from south line Campbell,									1
Cannon,	3.6 feet east from west line Water; 13.2 feet north from south line Cannon,							1		
Cannon,	On east line Acushnet avenue; 13.4 feet north from south line Cannon,							1		
Cedar,	1.5 feet south from south line Parker; 14.5 feet east from west line Cedar,				1					
Cedar,	3 feet north from north line E. Maxfield; 14 feet east from west line Cedar,				1					
Cedar,	14.4 feet south from north line Kempton; 13.5 feet east from west line Cedar,								1	
Cedar,	4 feet north from south line Court; 13.6 feet east from west line Cedar,								1	
Cedar Grove,	1.5 feet east from east line Acushnet avenue; 11 feet north from south line Cedar Grove,								1	
Cedar Grove,	On west line Acushnet avenue; 16.5 feet north from south line Cedar Grove,									1
Cedar Grove,	On west line Purchase; 12 feet north from south line Cedar Grove,						1			
Cedar Grove,	On east line State; 14.6 feet north from south line Cedar Grove,						1			
Cedar Grove,	0.9 foot east from west line State; 14.2 feet north from south line Cedar Grove,								1	

List of Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE.								
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Centre,	1 foot east from east line Front; 14 feet north from south line Centre,									1
Chancery,	On north line Parker; 15 feet east from west line Chancery,								1	
Chancery,	1 foot south from south line Parker; 13.8 feet east from west line Chancery,								1	
Chancery,	2 feet north from south line Hillman; 11 feet east from west line Chancery,									1
Chancery,	On north line Kempton; 9 feet east from west line Chancery,									1
Chancery,	1 foot south from south line Kempton; 14.3 feet east from west line Chancery,								1	
Chancery,	1 foot south from north line Arnold; 13.5 feet east from west line Chancery,									1
Cherry,	0.5 foot east from east line County: 14 feet north from south line Cherry,									1
Cherry,	On west line Sixth; 14 feet north from south line Cherry,									1
Chestnut,	On north line Parker; 13 feet east from west line Chestnut,								1	
Chestnut,	On south line Parker; 13.5 feet east from west line Chestnut,									1
Chestnut,	On north line Smith; 14 feet east from west line Chestnut,									1
Chestnut,	0.6 foot south from south line Smith; 14.6 feet east from west line Chestnut,									1
Chestnut,	1 foot south from south line Hillman; 14 feet east from west line Chestnut,									1
Chestnut,	1 foot north from north line Kempton; 13.2 feet east from west line Chestnut,									1
City Wharf,	13.5 feet west from east line Water; 66 feet north from north line Madison,									1
Clark,	On west line Purchase; 13 feet north from south line Clark,									1
Clark,	On east line State; 14 feet north from south line Clark,									1
Clark,	1 foot east from west line State; 14 feet north from south line Clark,									1

List of Stop Gates — *Continued*.

STREETS.	LOCATION.	SIZE.								
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Clinton,	1.5 feet west from east line Cottage; 13.3 feet north from south line Clinton,									1
Clinton,	3 feet west from west line Ash; 14 feet north from south line Clinton,									1
Clinton,	On east line Ash; 13.4 feet north from south line Clinton,								1	
Coffin,	1.3 feet west from east line Water; 14.3 feet north from south line Coffin,									1
Coffin av.,	2 feet west from east line North Purchase; 19.4 feet north from south line Coffin avenue,								1	
Coffin av.,	On west line Acushnet avenue; 18 feet north from south line Coffin avenue,								1	
Coffin av.,	On east line Acushnet avenue; 13.4 feet north from south line Coffin avenue,								1	
Coggeshall,	2 feet east from east line Acushnet avenue; 19 feet north from south line Coggeshall,								1	
Coggeshall,	On west line Purchase; 14.7 feet north from south line Coggeshall,								1	
Commercial,	17 feet west from east line Front; 26 feet south from north line Commercial,									1
Commercial,	On east line Water; 18 feet north from south line Commercial,									1
Cottage road,	30.6 feet north from north line house No. 14; 15.3 feet east from east line house No. 14,								1	
Cottage,	On west line Dartmouth; 14 feet north from south line Cottage,								1	
Cottage,	0.8 foot north from south line Allen; 14 feet east from west line Cottage,								1	
Cottage,	On north line Allen; 14 feet east from west line Cottage,								1	
Cottage,	On south line Hawthorn; 14 feet east from west line Cottage,									1
Cottage,	On south line Clinton; 14 feet east from west line Cottage,									1
Cottage,	2 feet south from south line Court; 14 feet east from west line Cottage,									1

List of Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE.								
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Cottage,	On south line Kempton; 14 feet east from west line Cottage,								1	
Cottage,	On north line Kempton; 14.9 feet east from west line Cottage,									1
Cottage,	On south line Hillman; 14 feet east from west line Cottage,									1
Cottage,	3.5 feet south from south line Smith; 14 feet east from west line Cottage,									1
County,	On north line Linden; 18 feet east from west line County,								1	
County,	5.4 feet south from south line Linden; 18.5 feet east from west line County,								1	
County,	2 feet north from north line Robeson; 18.6 feet east from west line County,								1	
County,	1 foot south from south line Merrimac; 17.5 feet east from west line County,					1				
County,	3 feet south from south line Willis; 15.8 feet east from west line County,					1				
County,	On south line Hillman; 18.2 feet east from west line County,						1			
County,	3 feet north from south line Middle; 18 feet east from west line County,						1			
County,	On south line Union; 18 feet east from west line County,							1		
County,	3 feet north from north line Madison; 18 feet east from west line County,							1		
County,	4 feet south from south line Bedford; 18 feet east from west line County,							1		
County,	0.8 foot north from north line Grinnell; 19.8 feet east from									
County,	west line County,								1	
at hydrant.	9.5 feet south from south line Grinnell; 12.5 feet east from west line County,								1	
County,	1.6 feet north from north line									
at hydrant,	South; 12.7 feet east from west line County,								1	
County,	2.6 feet south from south line South; 12.7 feet east from west line County,			1						

List of Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE.							
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
County,	1.5 feet north from north line Rivet; 16.2 feet east from west line County,								1	
County,	1 foot north from south line Rivet; 16.4 feet east from west line County,							1		
County,	On north line Division; 18 feet east from west line County,							1		
County,	On north line Cove; 18 feet east from west line County,							1		
Court,	2.5 feet east from west line County; 14 feet north from south line Court,							1		
Court,	3 feet west from east line Ash; 14.5 feet north from south line Court,									1
Court,	1.5 feet east from west line Ash; 14 feet north from south line Court,									1
Court,	2 feet west from west line Emerson; 14 feet north from south line Court,									1
Court,	On east line Tremont; 14 feet north from south line Court,									1
Court,	3 feet west from west line Tremont; 14.2 feet north from south line Court,							1		
Court,	On west line Jenney; 13 feet north from south line Court,							1		
Cove,	On east line Water; 19.3 feet north from south line Cove,								1	
Cove,	2 feet east from west line Water; 13.8 feet north from south line Cove,					1				
Crapo,	6 feet south from south line Grinnell; 14 feet east from west line Crapo,								1	
Crapo,	On south line Washington; 14 feet east from west line Crapo,									1
Crapo,	On south line Rockland; 14 feet east from west line Crapo,									1
Dartmouth,	0.5 foot south from west line Orchard; 16 feet east from west line Dartmouth,								1	
Dartmouth,	On south line Washington; 16.5 feet east from west line Dartmouth,								1	
Dartmouth,	On south line Rockland; 34 feet east from west line Dartmouth,							1		

List of Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE.							
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Dartmouth,	2.1 feet south from south line Rivet; 19.2 feet west from east line Dartmouth,							1		
Delano,	On east line Water; 14 feet north from south line Delano,								1	
Delano,	2 feet west from west line Water; 14 feet north from south line Delano,								1	
Delano,	On east line County; 14 feet north from south line Delano,								1	
Distrib. Res.,	Gate house,				1			1		
Division,	1.5 feet west from west line Water; 14.6 feet north from south line Division,								1	
Division,	On west line County; 14 feet north from south line Division,								1	
Dover,	On west line Second; 7 feet north from south line Dover,									1
Durfee,	10 feet west from east line Mt. Pleasant; 1 foot south from north line Durfee,		1							
Durfee,	21 feet west from west line Mt. Pleasant; 14.5 feet north from south line Durfee,				1					
Durfee,	On west line Cedar; 14 feet north from south line Durfee,							1		
Durfee,	On east line Shawmut avenue, north; 14 feet north from south line Durfee,							1		
Durfee,	On west line Shawmut avenue; 14 feet north from south line Durfee,								1	
Eighth,	On north line William; 14 feet east from west line Eighth,									1
Eighth,	7 feet north from north line Union; 16 feet east from west line Eighth,									1
Eighth,	On south line Union; 16 feet east from west line Eighth,									1
Elm,	10.5 feet west from west line Water; 13 feet north from south line Elm,									1
Elm,	6.6 feet east from east line Purchase; 14 feet north from south line Elm,									1
Elm,	0.6 foot east from west line Purchase; 15.4 feet north from south line Elm,									1

List of Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE.							
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Elm,	13.5 feet west from east line Pleasant; 12.5 feet north from south line Elm,									1
Elm,	1.8 feet east from west line North Pleasant; 12.5 feet north from south line Elm,									1
Elm,	On east line County; 15.6 feet north from south line Elm,									1
Elm,	On west line County; 14 feet north from south line Elm,									1
Elm,	0.7 foot west from east line Cedar; 14.5 feet north from south line Elm,									1
Elm,	1.5 feet east from east line Ash; 14 feet north from south line Elm,									1
Emerson,	3.3 feet north from south line Parker; 14.5 feet east from west line Emerson,								1	
Emerson,	On north line Smith; 14 feet east from west line Emerson,								1	
Emerson,	On south line Kempton; 14 feet east from west line Emerson,									1
Fair,	On east line Dartmouth; 14 feet north from south line Fair,								1	
Fifth,	1 foot south from south line Union; 14 feet east from west line Fifth,									1
Fifth,	3 feet north from north line Walnut; 14.3 feet east from west line Fifth,								1	
Fifth,	1.5 feet north from south line Walnut; 14 feet east from west line Fifth,									1
Fifth,	1 foot south from south line Bedford; 14 feet east from west line Fifth,								1	
Fifth,	5 feet south from north line Grinnell; 14 feet east from west line Fifth,								1	
First,	2 feet north from south line Union; 13 feet east from west line First,									1
First,	1 foot south from south line Walnut; 13.2 feet east from west line First,									1
First,	2.7 feet south from north line Grinnell; 11 feet east from west line First,									1

List of Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE.							
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
First,	1 foot south from south line Grinnell; 16 feet east from west line First,									1
First,	19.5 feet south from south line South; 15 feet east from west line First,									1
First,	On north line Potomska; 14 feet east from west line First,									1
First,	0.7 foot north from north line Rivet; 14.3 feet east from west line First,									1
First,	On south line Rivet; 11 feet east from west line First,									1
First,	2 feet south from south line Blackmer; 14.5 feet east from west line First,									1
Florence,	1.5 feet north from north line Kempton; 14 feet east from west line Florence,							1		
Florence,	0.6 foot north from south line Kempton; 14 feet east from west line Florence,								1	
Florence,	On north line Court; 14 feet east from west line Florence,								1	
Forest,	1.2 feet west from west line County; 14 feet north from south line Forest,									1
Foster,	5.2 feet south from south line Kempton; 14 feet east from west line Foster,									1
Foster,	1.4 feet south from south line North; 14 feet east from west line Foster,									1
Foster,	On south line Hillman; 14 feet east from west line Foster,									1
Fourth,	21.8 feet south from south line Union; 16.4 feet east from west line Fourth,							1		
Fourth,	1 foot south from south line Walnut; 13.5 feet east from west line Fourth,							1		
Fourth,	4.5 feet south from south line Bedford; 14 feet east from west line Fourth,							1		
Fourth,	On south line Wing; 14 feet east from west line Fourth,							1		
Fourth,	On south line Grinnell; 14 feet east from west line Fourth,								1	

List of Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE.								
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Fourth,	On north line South; 14 feet east from west line Fourth,								1	
Fourth,	On south line South; 14 feet east from west line Fourth,									1
Franklin,	On east line State; 14 feet north from south line Franklin,									1
Franklin,	On west line State; 14 feet north from south line Franklin,									1
French av.,	On south line Cove, west; 24.1 feet east from west line French avenue,					1				
Front,	On north line Hicks; 14 feet east from west line Front,								1	
Front,	1 foot south from south line Logan; 14 feet east from west line Front,							1		
Front,	On north line Middle; 17.5 feet east from west line Front,								1	
Front,	1.5 feet south from south line Union; 16.4 feet east from west line Front,								1	
Front,	1.5 feet south from north line Grinnell; 14 feet east from west line Front,									1
Front,	On south line Grinnell; 14.5 feet east from west line Front,								1	
Front,	1 foot south from south line South; 15 feet east from west line Front,									1
Front,	On north line Potomska; 14 feet east from west line Front,									1
Front,	1.3 feet north from south line Blackmer; 15.7 feet east from west line Front,							1		
Gammons lane,	On east line Ashland; 5.5 feet north from south line Gammons lane,									1
Gifford,	1 foot east from east line Water; 26.5 feet south from north line Gifford,						1			
Grape,	On west line Oak; 10.9 feet north from south line Grape,								1	
Greene,	0.8 foot north from north line Allen; 13.6 feet east from west line Greene,									1
Griffin,	On east line Acushnet avenue; 15 feet north from south line Griffin,									1

List of Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE.								
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Griffin,	1.8 feet west from west line Water; 13 feet north from south line Griffin,									1
Grinnell,	1 foot east from east line Prospect; 14 feet north from south line Grinnell,							1		
Grinnell,	0.5 foot east from east line Water; 14.7 feet north from south line Grinnell,						1			
Grinnell,	On west line Water; 14.6 feet north from south line Grinnell,					1				
Grinnell,	On east line Acushnet avenue; 14 feet north from south line Grinnell,					1				
Grinnell,	1 foot west from east line Fifth; 14 feet north from south line Grinnell,					1				
Grinnell,	On east line Bonney; 14 feet north from south line Grinnell,					1				
Grinnell,	On west line Orchard; 14 feet north from south line Grinnell,									1
Grove,	On east line Ash; 15 feet north from south line Grove,								1	
Hall,	1.6 feet south from south line Rockland; 13.7 feet east from west line Hall,								1	
Hall's court,	6 feet north from south line William; 2 feet west from east line Court,									1
Hawthorn,	On west line County; 14.5 feet north from south line Hawthorn,									1
Hawthorn,	On east line Ash; 18.1 feet north from south line Hawthorn,									1
Hawthorn,	1 foot west from west line Ash; 18.5 feet north from south line Hawthorn,									1
Hawthorn,	On west line Tremont; 18 feet north from south line Hawthorn,							1		
Hazard,	3.5 feet west from west line Purchase; 15.5 feet north from south line Hazard,									1
Hazard,	On east line State; 18 feet north from south line Hazard,									1
Hazard,	On west line State; 18.6 feet north from south line Hazard,									1
Hazard,	On east line County; 17.8 feet north from south line Hazard,									1

LIST OF STOP GATES — *Continued.*

STREETS.	LOCATION.	SIZE.							
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Hazard court,	2 feet south from north line Hazard; 17.1 feet east from house on west side of court,									1
Hemlock,	On north line Rivet; 14 feet east from west line Hemlock,								1	
Hemlock,	On south line Rivet; 14.5 feet east from west line Hemlock,								1	
Hickory,	On west line Dartmouth; 13.7 feet north from south line Hickory,								1	
Hicks,	1 foot west from west line Front; 16 feet north from south line Hicks,							1		
High,	7.8 feet east from west line Second; 10 feet north from south line High (east),									1
High,	7.2 feet east from east line Purchase; 13.5 feet north from south line High,									1
High,	1.8 feet west from west line Purchase; 11 feet north from south line High,									1
High,	On east line Pleasant; 11.2 feet north from south line High,									1
High,	On west line Pleasant; 11.2 feet north from south line High,									1
High,	On east line County; 13 feet north from south line High,									1
Hill,	4 feet south from south line North; 14 feet east from west line Hill,									1
Hill,	7 feet north from south line Hillman; 15.5 feet east from west line Hill,									1
Hillman,	1.6 feet east from west line Water; 10.5 feet north from south line Hillman,							1		
Hillman,	8.5 feet west from east line Purchase; 11 feet north from south line Hillman,							1		
Hillman,	On west line Purchase; 11 feet north from south line Hillman (east),							1		
Hillman,	0.4 foot west from east line Pleasant; 14.3 feet north from south line Hillman,						1			
Hillman,	1.4 feet west from west line Pleasant; 14.3 feet north from south line Hillman,							1		

List of Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE.							
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Hillman,	7 feet east from east line Hill; 14 feet north from south line Hillman,							1		
Hillman,	3 feet west from east line County; 14 feet north from south line Hillman,							1		
Hillman,	On west line County; 14 feet north from south line Hillman,								1	
Hillman,	On east line Cottage; 13.6 feet north from south line Hillman,								1	
Hillman,	On west line Cedar; 15.3 feet north from south line Hillman,									1
Howland's wharf,	On east line Water; 57.5 feet north from north line North,									1
Howland,	1.5 feet east from east line Water; 13.2 feet north from south line Howland,									1
Howland,	On west line Water; 11.8 feet north from south line Howland,									1
Howland,	3.7 feet east from east line Acushnet avenue; 10 feet north from south line Howland,									1
Hunter,	3.3 feet north from north line Kempton; 13.8 feet east from west line Hunter,								1	
Jenney,	0.4 foot north from south line Kempton; 11.5 feet east from west line Jenney,							1		
Katharine,	On west line County; 17.2 feet north from south line Katharine,								1	
Kempton,	12.7 feet west from west line Purchase; 11 feet north from south line Kempton,									1
Kempton,	On east line Pleasant (north); 14 feet north from south line Kempton,						1			
Kempton,	2 feet east from west line Pleasant; 14 feet north from south line Kempton,									1
Kempton,	On east line County; 14 feet north from south line Kempton,									1
Kempton,	1 foot west from west line County; 14.5 feet north from south line Kempton,								1	
Kempton,	4 feet east from west line Cedar; 14 feet north from south line Kempton,								1	

List of Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE.								
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Kempton,	1 foot east from west line Ash; 14.9 feet north from south line Kempton,							1		
Kempton,	On east line Jenney; 14.4 feet north from south line Kempton,							1		
Kempton,	4.5 feet west from west line Liberty; 14.6 feet north from south line Kempton,							1		
Kempton,	0.5 foot east from east line Reed; 14 feet north from south line Kempton,							1		
Kilburn,	1 foot east from east line Front; 14.3 feet north from south line Kilburn,							1		
Liberty,	1.2 feet north from south line Kempton; 14 feet east from west line Liberty,									1
Linden,	1.5 feet west from west line Purchase; 17.3 feet north from south line Linden,								1	
Linden,	1 foot west from east line State; 16 feet north from south line Linden,						1			
Linden,	8.1 feet west from west line State; 18 feet north from south line Linden,				1					
Linden, at hydrant,	13.4 feet west from west line State; 10.2 feet north from south line Linden,								1	
Linden, at hydrant,	60.5 feet west from west line North County; 10.8 feet north from south line Linden,								1	
Linden, at hydrant,	67.6 feet west from west line Reynolds; 9 feet north from south line Linden,								1	
Linden, at hydrant,	5.8 feet east from east line Ashland; 9.4 feet north from south line Linden,								1	
Linden,	4.6 feet east from east line Ashland; 14 feet north from south line Linden,				1					
Linden court,	On south line Linden; 7 feet east from west line court,									1
Lindsey,	On south line Kempton; 14.4 feet east from west line Lindsey,									1
Locust,	0.7 foot east from west line County; 14 feet north from south line Locust,							1		

List of Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE.							
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Locust,	2.4 feet east from east line Cedar; 12.8 feet north from south line Locust,							1		
Locust,	On west line Cedar; 13.4 feet north from south line Locust,							1		
Logan,	On west line Front; 16 feet north from south line Logan,								1	
Logan,	5.5 feet east from east line Purchase; 16.2 feet north from south line Logan,								1	
Lombard,	On south line Rockland; 18 feet east from west line Lombard,									1
Madison,	3 feet west from west line Water; 14 feet north from south line Madison,									1
Madison,	2 feet east from east line Acushnet avenue; 14.6 feet north from south line Madison,									1
Madison,	0.8 foot west from west line Acushnet av.; 14.4 feet north from south line Madison,									1
Madison,	6.7 feet east from west line Fourth; 14 feet north from south line Madison,									1
Madison,	On east line Sixth; 14 feet north from south line Madison,							1		
Madison,	0.6 foot west from west line Sixth; 14 feet north from south line Madison,							1		
Madison,	On west line County; 14 feet north from south line Madison,								1	
Maitland,	On west line Cedar; 14 feet north from south line Maitland,								1	
Maple,	1.5 feet east from east line Ash; 14 feet north from south line Maple,								1	
Market,	On east line Sixth; 15.5 feet north from south line Market,									1
Marvin,	On east line Acushnet avenue; 14 feet north from south line Marvin,									1
Maxfield,	1 foot east from east line Acushnet avenue; 14 feet north from south line Maxfield,								1	
Maxfield,	4 feet east from east line Purchase; 14 feet north from south line Maxfield,									1
Maxfield,	3.7 feet west from west line Purchase; 14 feet north from south line Maxfield,									1

LIST OF STOP GATES — *Continued.*

STREETS.	LOCATION.	SIZE.								
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Maxfield,	1.2 feet west from east line Pleasant; 14.6 feet north from south line Maxfield,									1
Maxfield,	0.6 foot west from west line Pleasant; 14 feet north from south line Maxfield,									1
Maxfield,	1 foot east from west line State; 14 feet north from south line Maxfield,									1
Maxfield,	5 feet east from east line County; 13.7 feet north from south line Maxfield,								1	
Maxfield,	1 foot east from west line County; 14 feet north from south line Maxfield,							1		
Maxfield,	1.5 feet east from east line Cottage; 14.4 feet north from south line Maxfield,							1		
Maxfield,	1.5 feet east from east line Cedar; 14 feet north from south line Maxfield,							1		
Maxfield,	On west line Cedar; 14 feet north from south line Maxfield,							1		
Mechanics lane,	0.8 foot east from west line Pleasant; 7.2 feet north from south line Mechanics lane,									1
Merrimac,	7 feet east from west line Purchase; 15.8 feet north from south line Merrimac,						1			
Merrimac,	0.6 foot east from east line State; 16 feet north from south line Merrimac,						1			
Merrimac,	On west line State; 16 feet north from south line Merrimac,							1		
Merrill's wharf,	2.5 feet east from east line Front; 20 feet south from south line stone building,									1
Middle,	3 feet east from east line Water; 12.6 feet north from south line Middle,								1	
Middle,	On west line Water; 13 feet north from south line Middle,								1	
Middle,	102 feet east from east line Purchase; 12.2 feet north from south line Middle,								1	
Middle,	6.4 feet east from east line Purchase; 12.6 feet north from south line Middle,								1	

List of Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE.							
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Middle,	On west line Purchase; 13.5 feet north from south line Middle,								1	
Middle,	On east line Pleasant; 14 feet north from south line Middle.								1	
Middle,	On west line Pleasant; 14.4 feet north from south line Middle,								1	
Middle,	On east line County; 15.7 feet north from south line Middle,								1	
Middle,	6.6 feet west from west line County; 14 feet north from south line Middle,								1	
Middle,	On east line Cedar; 14.4 feet north from south line Middle,									1
Middle,	2.4 feet west from east line Ash; 13.6 feet north from south line Middle,									1
Mill,	On east line Purchase; 15 feet north from south line Mill,									1
Mill,	8 feet east from west line Purchase; 15.5 feet north from south line Mill,								1	
Mill,	On east line Pleasant; 14 feet north from south line Mill,								1	
Mill,	0.8 foot east from west line Pleasant; 14.5 feet north from south line Mill,								1	
Mill,	On east line County; 18.2 feet north from south line Mill.								1	
Mill,	On west line County; 12.2 feet north from south line Mill,								1	
Mill,	10 feet west from east line Cedar; 14 feet north from south line Mill,								1	
Mill,	On west line Cedar; 15 feet north from south line Mill,								1	
Morgan,	4 feet west from west line County; 14 feet north from south line Morgan,									1
Morgan,	16 feet west from east line Cedar; 14 feet north from south line Morgan,									1
Morgan,	7 feet east from east line Ash; 14.4 feet north from south line Morgan,									1
Mosher,	On west line County; 18 feet north from south line Mosher,									1
Mt. Pleasant,	68 feet north from north line Durfee; 20 feet east from west line Mt. Pleasant,					1				

LIST OF STOP GATES — *Continued.*

STREETS.	LOCATION.	SIZE.								
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Mt. Pleasant,	43 feet south from north line Peckham; 29.6 feet east from west line Mt. Pleasant,				1					
Mt. Pleasant,	43.3 feet south from north line Peckham; 13 feet east from west line Mt. Pleasant,				1					
Mt. Pleasant,	66 feet south from north line Peckham; 9.5 feet east from west line Mt. Pleasant,				1					
Mt. Pleasant,	71.5 feet south from north line Peckham; 8 feet east from west line Mt. Pleasant,					1				
Mt. Pleasant,	74.4 feet south from north line Peckham; 6.8 feet west from east line Mt. Pleasant,		1							
Mt. Pleasant,	66 feet south from north line Peckham; 5.7 feet east from west line Mt. Pleasant,		1							
Mt. Vernon,	1 foot west from west line Mt. Pleasant; 14 feet north from south line Mt. Vernon,									1
Nelson,	On west line County; 16 feet north from south line County,								1	
Newton,	On north line Court; 14 feet east from west line Newton,								1	
Newton,	1 foot south from south line Kempton; 14.5 feet east from west line Newton,								1	
North,	1 foot east from west line Water; 12 feet north from south line North,								1	
North,	6.6 feet west from east line Acushnet avenue; 14.8 feet north from south line North,									1
North,	2.4 feet east from east line Purchase; 14 feet north from south line North,									1
North,	On west line Purchase; 12 feet north from south line North,									1
North,	1.3 feet east from east line Pleasant; 14 feet north from south line North,							1		
North,	On west line Pleasant; 14 feet north from south line North,									1
North,	1 foot east from east line County; 17.6 feet north from south line North,									1
North,	On east line Cedar; 13.2 feet north from south line North,								1	

List of Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE.							
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
North,	On west line Cedar; 13.2 feet north from south line North,								1	
North,	On east line Park; 14.6 feet north from south line North,								1	
Oak,	On west line Dartmouth; 13.2 feet north from south line Oak,								1	
Ocean,	4 feet north from north line Arnold; 14 feet east from west line Ocean,									1
Ocean,	1.8 feet south from south line Arnold; 14 feet east from west line Ocean,								1	
Orchard,	1 foot south from south line Arnold; 14 feet east from west line Orchard,								1	
Orchard,	On north line Madison; 13.8 feet east from west line Orchard,									1
Orchard,	1 foot south from south line Dartmouth; 14.4 feet east from west line Orchard,					1				
Orchard,	On south line Washington; 14.6 feet east from west line Orchard,									1
Page,	On south line Hawthorn; 18.2 feet east from west line Page,							1		
Palmer,	On south line Kempton; 14 feet east from west line Palmer,								1	
Park,	On south line Court; 14.3 feet east from west line Park,							1		
Park,	1.7 feet south from south line Kempton; 14 feet east from west line Park,							1		
Park,	On north line Kempton; 18 feet east from west line Park,							1		
Park place,	On west line Sixth; 13 feet north from south line Park place,									1
Parker,	8.5 feet west from west line County; 14 feet north from south line Parker,							1		
Parker,	1 foot west from east line Cedar; 14 feet north from south line Parker,							1		
Parker,	On west line Cedar; 14 feet north from south line Parker,							1		
Pearl,	On east line Purchase; 15 feet north from south line Pearl,									1
Pearl,	0.8 foot east from east line Pleasant; 14 feet north from south line Pearl,						1			

LIST OF STOP GATES — *Continued.*

STREETS.	LOCATION.	SIZE.							
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Pearl,	1 foot west from west line Pleasant; 14 feet north from south line Pearl,									1
Peckham,	22.5 feet north from northeast corner stand pipe foundation; 31.7 feet east from east line Mt. Pleasant,				1					
Peckham,	2 feet west from east line Mt. Pleasant; 13 feet south from north line Peckham,		1							
Penniman,	On west line Purchase; 13 feet north from south line Penniman,									1
Penniman,	On east line State; 14.3 feet north from south line Penniman,									1
Penniman,	On west line State; 14 feet north from south line Penniman,									1
Pine,	On east line Water; 13.4 feet north from south line Pine,								1	
Pleasant,	On north line Linden; 13.6 feet east from west line Pleasant,								1	
Pleasant,	2 feet north from south line Linden; 14 feet east from west line Pleasant,								1	
Pleasant,	1.5 feet north from north line Hazard; 13.7 feet east from west line Pleasant,								1	
Pleasant,	On south line Merrimac; 14 feet east from west line Pleasant,								1	
Pleasant,	3 feet south from south line Pearl; 11 feet east from west line Pleasant,			1						
Pleasant, at hydrant,	13.2 feet north from south line Sycamore; 9.4 feet east from west line Pleasant,								1	
Pleasant,	2 feet north from north line Maxfield; 10.7 feet east from west line Pleasant,			1						
Pleasant,	On north line Kempton; 14 feet east from west line Pleasant,			1						
Pleasant, at hydrant,	21.5 feet north from north line William; 9.2 feet east from west line Pleasant,								1	
Pleasant,	On north line William; 10.8 feet east from west line Pleasant,			1						
Pleasant,	On south line William; 14.8 feet east from west line Pleasant,								1	
Pleasant,	On north line Union; 20 feet east from west line Pleasant,									1

List of Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE.							
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Pope,	On east line County; 14 feet north from south line Pope,									1
Pope,	On west line State; 14 feet north from south line Pope,									1
Pope,	On east line State; 14 feet north from south line Pope,								1	
Poplar road,	40.2 feet north from north line house No. 5; 34.4 feet east from east line house No. 5,								1	
Potomska,	2 feet west from east line Prospect; 14 feet north from south line Potomska,						1			
Potomska,	1 foot west from east line Water; 14 feet north from south line Potomska,						1			
Potomska,	On west line Water; 13 feet north from south line Potomska,							1		
Potomska,	On east line Acushnet avenue; 14.8 feet north from south line Potomska,									1
Prospect,	3 feet north from north line Potomska; 14 feet east from west line Prospect,									1
Prospect,	On south line South; 14.2 feet east from west line Prospect,									1
Prospect,	0.5 foot south from south line Grinnell; 14 feet east from west line Prospect,						1			
Prospect,	On north line Grinnell; 14 feet east from west line Prospect,							1		
Pumping Sta.,	Connection with old force main,				1					
Pumping Sta.,	New force main,	1	4		2					
Pumping Sta.,	North side force main,				1					
Pumping Sta.,	South side force main,							1		
Pumping Sta.,	Old force main,				2					
Purchase,	1 foot north from north line Deane; 18 feet east from west line Purchase,							1		
Purchase, at hydrant,	301.4 feet south from south line R. R. crossing; 12.5 feet east from west line Purchase,								1	
Purchase,	285.1 feet south from south line R. R. crossing; 17 feet east from west line Purchase,				1					
Purchase,	5 feet north from south line Coggeshall; 18 feet east from west line Purchase,								1	
Purchase,	On north line Cedar Grove; 20.6 feet east from west line Purchase,								1	

LIST OF STOP GATES — *Continued.*

STREETS.	LOCATION.	SIZE.							
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Purchase,	On south line Penniman; 15.1 feet east from west line Purchase,						1			
Purchase,	On south line Logan; 15.5 feet east from west line Purchase,						1			
Purchase,	On south line Merrimac; 16.4 feet east from west line Purchase,						1			
Purchase,	On south line Willis; 14.5 feet east from west line Purchase,						1			
Purchase,	On south line Hillman; 14.5 feet east from west line Purchase,						1			
Purchase,	5.5 feet south from north line Middle; 15.6 feet east from west line Purchase,						1			
Purchase, at hydrant,	2.5 feet north from north line Mechanics lane; 12.7 feet west from west line Purchase,								1	
Reed,	On south line Kempton; 13.8 feet east from west line Reed,								1	
Reynolds,	1 foot north from north line Linden; 14 feet east from west line Reynolds,								1	
Richmond,	0.7 foot north from north line Parker; 13.2 feet east from west line Richmond,								1	
Rivet,	On east line Dartmouth; 13.5 feet north from south line Rivet,							1		
Rivet,	On west line Bolton road; 13.5 feet north from south line Rivet,							1		
Rivet,	70.3 feet east from west line Bolton road; 12.6 feet north from south line Rivet,						1			
Rivet,	On East line Bonney; 13.1 feet north from south line Rivet,						1			
Rivet,	On west line County; 14 feet north from south line Rivet,						1			
Rivet,	On west line Water; 14.2 feet north from south line Rivet,							1		
Robeson,	On west line Ashland; 13.3 feet north from south line Robeson,								1	
Robeson,	0.4 foot east from east line Cedar; 14.7 feet north from south line Robeson,								1	
Robeson,	On west line Cedar; 14 feet north from south line Robeson,								1	
Rock,	0.5 foot north from north line Coggeshall; 18.1 feet east from west line Rock,								1	

List of Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE.								
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Rockland,	1.7 feet east from east line Dartmouth; 14.8 feet north from south line Rockland,							1		
Rockland,	0.6 foot east from west line Crapo; 14.6 feet north from south line Rockland,							1		
Rockland,	1 foot west from west line County; 13.8 feet north from south line Rockland,							1		
Rodman,	1.5 feet east from east line Water; 13.6 feet north from south line Rodman,									1
Rodman,	77.8 feet east from east line Front; 26 feet south from north line Rodman,									1
Rounds,	On south line Kempton; 14.4 feet east from west line Rounds,									1
Russell,	5 feet east from west line Acushnet avenue; 13 feet north from south line Russell,							1		
Russell,	1.4 feet east from west line Fourth; 14 feet north from south line Russell,									1
Russell,	On east line Sixth; 14 feet north from south line Russell,									1
Russell,	0.3 foot west from west line Sixth; 14 feet north from south line Russell,								1	
Sawyer,	0.5 foot east from east line Purchase; 15.5 feet north from south line Sawyer,							1		
Sawyer,	On west line Acushnet avenue; 17.8 feet north from south line Sawyer,							1		
Sawyer,	0.5 foot east from east line Acushnet avenue; 14 feet north from south line Sawyer,							1		
Sawyer,	On west line Rock; 17.2 feet north from south line Sawyer,							1		
Sawyer,	On east line Rock; 18 feet north from south line Sawyer,							1		
School,	On west line Second; 13.1 feet north from south line School,								1	
School,	2.5 feet west from east line Fourth; 14.7 feet north from south line School,									1
School,	On west line Fourth; 13.6 feet north from south line School,								1	

LIST OF STOP GATES — *Continued.*

STREETS.	LOCATION.	SIZE.							
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
School,	1 foot east from east line Sixth; 14 feet north from south line School,								1	
School,	0.7 foot east from west line Sixth; 13.7 feet north from south line School,								1	
School,	1.5 feet east from east line County; 15.8 feet north from south line School,									1
Sears court,	0.6 foot east from west line Purchase; 4.5 feet north from south line court,									1
Second,	6 feet north from north line Hillman; 14 feet east from west line Second,								1	
Second,	0.5 foot south from south line Hillman; 14 feet east from west line Second,								1	
Second,	1 foot south from north line Middle; 14 feet east from west line Second,								1	
Second,	1 foot north from south line Middle; 14 feet east from west line Second,								1	
Second,	1 foot south from south line Elm; 14.5 feet east from west line Second,								1	
Second,	3.5 feet north from north line Union; 14 feet east from west line Second,									1
Second,	1 foot south from south line Union; 14 feet east from west line Second,									1
Second,	On south line Walnut; 14 feet east from west line Second,									1
Second,	On north line Cannon; 15 feet east from west line Second,									1
Second,	On south line Cannon; 14.3 feet east from west line Second,							1		
Second,	2 feet north from south line Griffin; 13.5 feet east from west line Second,							1		
Second,	1 foot north from south line Grinnell; 14 feet east from west line Second,							1		
Second,	5.7 feet south from south line Grinnell; 14 feet east from west line Second,							1		

List of Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE.							
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Second,	On north line South; 13.8 feet east from west line Second,							1		
Second,	On north line Rivet; 14 feet east from west line Second,							1		
Second,	On south line Rivet; 13.5 feet east from west line Second,							1		
Seneca,	On east line Acushnet avenue; 13.5 feet north from south line Seneca,								1	
Seventh,	1 foot north from south line Union; 14 feet east from west line Seventh,								1	
Seventh,	2 feet north from north line School; 15 feet east from west line Seventh,									1
Seventh,	2 feet south from south line Walnut; 14 feet east from west line Seventh,									1
Shawmut av.,	2 feet north from north line Parker; 14.4 feet east from west line Shawmut avenue,							1		
Sherman,	0.6 foot west from west line County; 13 feet north from south line Sherman,									1
Sisson,	On south line Court; 18.5 feet east from west line Sisson,								1	
Sixth,	2.5 feet south from south line Middle; 13.3 feet east from west line Sixth,									1
Sixth,	On north line William; 14 feet east from west line Sixth,								1	
Sixth,	3.5 feet north from north line Union; 11 feet east from west line Sixth,			1						
Sixth,	On south line Union; 9.4 feet east from west line Sixth,			1						
Sixth,	1.6 feet south from south line Walnut; 10.2 feet east from west line Sixth,			1						
Sixth,	1.5 feet south from south line Bedford; 9.8 feet east from west line Sixth,			1						
Sixth, at hydrant,	196.6 feet north from north line Grinnell; 8.8 feet east from west line Sixth,								1	
Smith,	11.6 feet west from west line County; 14 feet north from south line Smith,								1	

LIST OF STOP GATES — *Continued.*

STREETS.	LOCATION.	SIZE.							
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Smith,	1.5 feet east from east line Cedar; 14.5 feet north from south line Smith,								1	
Smith,	2.5 feet west from west line Cedar; 14 feet north from south line Smith,								1	
Social,	On east line French avenue; 18.5 feet north from south line Social,								1	
South,	3.4 feet east from east line Water; 14 feet north from south line South,								1	
South,	1.2 feet west from west line Water; 13.9 feet north from south line South,							1		
South,	On west line Second; 15 feet north from south line South,								1	
South,	On east line County (south); 13.9 feet north from south line South,							1		
South Beach road,	36.4 feet north from north line house No. 29; 20.9 feet east from east line house No. 29,							1		
Spring,	On west line Second; 14.3 feet north from south line Spring,									1
Spring,	2 feet east from west line Fourth; 14.5 feet north from south line Spring,									1
Spring,	5 feet east from east line Sixth; 14.5 feet north from south line Spring,									1
Spring,	0.5 foot west from west line Sixth; 14.9 feet east from west line Sixth,									1
Spruce,	1 foot south from south line Hillman; 14.3 feet east from west line Spruce,									1
Spruce,	On south line Smith; 13.3 feet east from west line Spruce,									1
Spruce,	On north line Parker; 14 feet east from west line Spruce,								1	
State,	South side force main in engine house lot,				1					
State,	On north line Linden; 14 feet east from west line State,				1					
State,	2 feet south from south line Linden; 9.8 feet east from west line State,			1						

List of Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE.							
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
State,	2 feet north from north line Merrimac; 10 feet east from west line State,			1						
State,	1 foot south from south line Campbell; 14 feet east from west line State,									1
Steamboat wharf,	72 feet north from north line School; 17.6 feet west from east line Front,									1
Summer,	1.6 feet south from south line Parker; 13.6 feet east from west line Summer,									1
Summer,	On north line Smith; 13 feet east from west line Summer,									1
Summer,	4 feet south from south line Smith; 14 feet east from west line Summer,									1
Summer,	2 feet south from south line Hillman; 14 feet east from west line Summer,									1
Summer,	12 feet south from south line Kempton; 14 feet east from west line Summer,								1	
Summer,	On north line Elm; 14 feet east from west line Summer,								1	
Sycamore,	1.5 feet east from west line Pleasant; 14 feet north from south line Sycamore,								1	
Sycamore,	1 foot west from west line State; 14 feet north from south line Sycamore,									1
Sycamore,	4 feet east from east line County; 13.9 feet north from south line Sycamore,									1
Sycamore,	10.5 feet east from west line County (south); 14 feet north from south line Sycamore,									1
Sycamore,	On east line Cedar; 14.3 feet north from south line Sycamore,									1
Sycamore,	5.5 feet west from west line Cedar; 13.5 feet north from south line Sycamore,									1
Taber's wharf,	78.5 feet north from north line Union; 8 feet west from east line Front,									1
Thompson,	On west line County; 14.5 feet north from south line Thompson,									1

LIST OF STOP GATES — *Continued.*

STREETS.	LOCATION.	SIZE.							
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Tremont,	2.7 feet north from north line Arnold; 14 feet east from west line Tremont,							1		
Tremont,	0.4 foot north from south line Arnold; 14.1 feet east from west line Tremont,							1		
Trinity,	0.8 foot west from west line Cedar; 14 feet north from south line Trinity,								1	
Union,	5.7 feet east from east line Water; 15 feet north from south line Union,									1
Union,	On east line Purchase; 16.2 feet north from south line Union,							1		
Union,	10.2 feet east from west line Fourth; 15.8 feet north from south line Union,							1		
Union,	On east line Sixth; 16.9 feet north from south line Union,						1			
Union,	1.2 feet west from west line Sixth; 16.5 feet north from south line Union,							1		
Union,	0.5 foot east from east line County; 16 feet north from south line Union,							1		
Union,	On west line County (south); 15.1 feet north from south line Union,									1
Union,	1.5 feet east from west line Cottage; 14 feet north from south line Union,									1
Union,	On east line Ash; 14 feet north from south line Union,								1	
Union,	On west line Ash; 19.2 feet north from south line Union,								1	
Union,	0.5 foot west from west line Tremont; 18.4 feet north from south line Union,								1	
Wall,	On east line Acushnet avenue; 12.7 feet north from south line Wall,									1
Walnut,	4 feet east from east line Front; 12.6 feet north from south line Walnut,									1
Walnut,	3.5 feet east from east line Water; 12.9 feet north from south line Walnut,								1	
Walnut,	On west line Water; 12.4 feet north from south line Walnut,								1	

List of Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE.							
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Walnut,	1 foot east from west line Second; 14 feet north from south line Walnut,								1	
Walnut,	2.5 feet west from west line Fourth; 14 feet north from south line Walnut,								1	
Walnut,	0.3 foot east from east line Sixth; 14.2 feet north from south line Walnut,								1	
Walnut,	On west line Sixth; 14.2 feet north from south line Walnut,								1	
Walnut,	3 feet east from east line County; 14.5 feet north from south line Walnut,								1	
Wamsutta, at hydrant,	196.8 feet west from west line Front; 12 feet north from south line Wamsutta,									1
Wamsutta, at hydrant,	369 feet west from west line Front; 11.6 feet north from south line Wamsutta,									1
Wamsutta,	4.5 feet east from east line Acushnet avenue; 11 feet north from south line Wamsutta,							1		
Wamsutta,	4 feet east from west line Acushnet avenue; 16 feet north from south line Wamsutta,							1		
Wamsutta,	1.4 feet west from east line Purchase; 13 feet north from south line Wamsutta,							1		
Washburn,	1 foot west from west line Front; 14 feet north from south line Washburn,								1	
Washington,	1.7 feet east from east line County; 22 feet south from north line Washington,								1	
Washington,	0.8 foot east from west line County; 14.8 feet north from south line Washington,								1	
Washington,	1 foot west from west line Bonney; 13.3 feet north from south line Washington,								1	
Washington,	3 feet west from east line Dartmouth; 13.5 feet north from south line Washington,									1
Warwick,	On south line Rockland; 13 feet east from west line Warwick,									1
Water,	1.8 feet south from south line Middle; 13 feet east from west line Water,								1	

List of Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE.							
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Water,	On north line Union; 14.5 feet east from west line Water,								1	
Water,	1.5 feet north from south line Union; 14 feet east from west line Water,								1	
Water,	3.6 feet south from south line Walnut; 13.5 feet east from west line Water,								1	
Water,	On north line Coffin; 12.8 feet east from west line Water,								1	
Water,	On north line Cannon; 13.2 feet east from west line Water,						1			
Water,	1.7 feet south from south line Griffin; 13 feet east from west line Water,								1	
Water,	On north line Grinnell; 14 feet east from west line Water,								1	
Water,	On south line Grinnell, 14.9 feet east from west line Water,					1				
Water,	0.5 foot south from south line South; 13.2 feet east from west line Water,					1				
Water,	0.8 foot south from south line Potomska; 14.7 feet east from west line Water,					1				
Water,	On north line Rivet; 14.2 feet east from west line Water,					1				
Water,	On south line Rivet; 13.9 feet east from west line Water,					1				
Water,	2 feet north from north line Delano; 13.5 feet east from west line Water,					1				
Water,	On north line Gifford; 13.1 feet east from west line Water,					1				
Water,	On south line Gifford; 13 feet east from west line Water,					1				
Water,	On north line Cove (east); 14.6 feet east from west line Water,					1				
Welcome,	0.4 foot west from east line French avenue; 18.3 feet north from south line Welcome,								1	
Weld,	On east line State; 16.5 feet north from south line Weld,						1			
Weld,	1 foot east from west line State; 15.3 feet north from south line Weld,						1			
William,	On west line Water; 18.5 feet north from south line William,									1

List of Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE.								
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
William,	2.5 feet east from east line Second; 14 feet north from south line William,									1
William,	On east line Purchase; 15.5 feet north from south line William,									1
William,	9.3 feet east from west line Purchase; 15.2 feet north from south line William,									1
William,	0.7 foot east from east line Pleasant (north); 14.9 feet north from south line William,						1			
William,	1.3 feet east from west line Sixth; 14.7 feet north from south line William,							1		
William,	On east line County; 14 feet north from south line William,									1
Willis,	On east line Acushnet avenue; 7.8 feet north from south line Willis,									1
Willis,	2.6 feet east from east line Purchase; 15.4 feet north from south line Willis,								1	
Willis,	2 feet west from west line Purchase; 15.2 feet north from south line Willis,								1	
Willis,	1.3 feet east from east line Pleasant; 14.4 feet north from south line Willis,								1	
Willis,	1.2 feet west from west line Pleasant; 18.4 feet north from south line Willis,								1	
Willis,	On east line County; 14 feet north from south line Willis,								1	
Willis,	On west line County; 15.1 feet north from south line Willis,								1	
Willis,	On west line Chestnut; 14 feet north from south line Willis,								1	
Willis,	1.3 feet east from east line Cedar; 14 feet north from south line Willis,								1	
Willis,	1 foot east from west line Cedar; 13.2 feet north from south line Willis,								1	
Wing,	0.5 foot west from west line Acushnet avenue; 14 feet north from south line Wing,								1	
Wing,	On east line Sixth; 14.5 feet north from south line Wing,							1		

LIST OF STOP GATES — *Concluded.*

STREETS.	LOCATION.	SIZE.							
		30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Wing,	1.4 feet west from west line Sixth; 13.8 feet north from south line Wing,							1		
Wing,	On east line County; 14 feet north from south line Wing,							1		
Winsor,	On west line County; 18 feet north from south line Winsor,								1	
	Totals,	2	7	11	25	21	40	115	237	211

Total number of stop gates, 669.

TABLE N.

Complete List of Small Sized Stop Gates.

STREETS.	LOCATION.	SIZE. 3 in.	2 in.	1 in.	¾ in.
Acushnet avenue, at watering-cart hdt.,	16.2 feet south from south line Tarkiln Hill road; 8.1 feet east from west line avenue,		1		
Acushnet avenue, at watering-cart hdt.,	22 feet north from north line North Belleville road; 7.7 feet east from west line avenue,		1		
Acushnet avenue, at watering-cart hdt.,	9.8 feet north from north line South Belleville road; 7.5 feet east from west line avenue,		1		
Allen, at watering-cart hydrant,	153.9 feet east from east line Page; 7.9 feet south from north line Allen,		1		
Bedford, at watering-cart hydrant,	85.7 feet west from west line Fourth; 8.2 feet north from south line Bedford,		1		
Blackburn,	1 foot north from south line Cedar Grove; 13.2 feet east from west line Blackburn,	1			
Bridge, Fish Island, for Club House,	11.7 feet east from east line building; 3.6 feet north from south line Bridge,		1		
Briggs court,	1 foot north from south line Allen; 8.6 feet east from west line court,		1		
Campbell, at watering-cart hydrant,	87.3 feet west from west line Purchase; 8.4 feet north from south line Campbell,		1		
Cedar Grove, at watering-cart hdt.,	16.9 feet west from west line Acushnet avenue; 7.9 feet north from south line Cedar Grove,		1		
Coffin av., at watering-cart hydrant,	16.5 feet west from west line Acushnet avenue; 8 feet north from south line Coffin avenue,		1		
Cornell court,	On west line Hall; 9 feet north from south line court,			1	
Cornell place,	On west line Bowditch; 12.7 feet north from south line Cornell place,		1		
Court, at watering-cart hydrant,	14.7 feet east from east line Ash; 8.3 feet south from north line Court,		1		
Dartmouth, at watering-cart hydrant,	12.6 feet north from south line Oak; 8.2 feet west from east line Dartmouth,		1		
First, at watering-cart hydrant,	28.1 feet south from south line Grinnell; 8 feet east from west line First,		1		
First, at watering-cart hydrant,	117.7 feet south from south line School; 8.2 feet east from west line First,		1		
Fish Island, at end of siphon,	46.5 feet south from bridge; 8.5 feet south from building; 8.9 feet from face of wharf wall,		1		

List of Small Sized Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE.			
		3 in.	2 in.	1 in.	¾ in.
Fulton court,	On north line Logan; 9.4 feet east from west line court,		1		
Grinnell, at watering-cart hydrant,	32 feet east from east line County; 8.6 feet north from south line Grinnell,		1		
Hampton court,	On north line Logan; 9.4 feet east from west line Court,		1		
Hawthorn, at watering-cart hydrant,	17.3 feet east from east line Cottage; 8.4 feet north from south line Hawthorn,		1		
Hawthorn, at watering-cart hydrant,	14.4 feet east from west line Tremont; 10.3 feet north from south line Hawthorn,		1		
Hazard, at watering-cart hydrant,	20.7 feet west from west line Purchase; 8.6 feet north from south line Hazard,		1		
Hillman court,	116.8 feet west from west line Water; 31 feet north from south line Hillman; 7 feet west from west line house,				1
Holden court,	On west line Cottage; 4.5 feet north from south line court,		1		
Kempton, at watering-cart hydrant,	17.5 feet east from east line Rockdale avenue; 9.8 feet north from south line Kempton,		1		
Kempton, at watering-cart hydrant,	102.3 feet east from east line Newton; 8.2 feet north from south line Kempton,		1		
Kempton, at watering-cart hydrant,	72.6 feet west from west line County; 7.7 feet north from south line Kempton,		1		
Kempton,	0.6 foot east from east line Acushnet avenue; 10.4 feet north from south line Kempton,		1		
Linden, at watering-cart hydrant,	30.2 feet west from west line Purchase; 8.3 feet north from south line Linden,		1		
Locust, at watering-cart hydrant,	24.6 feet west from west line County; 8.8 feet north from south line Locust,		1		
Madison, at watering-cart hydrant,	38.3 feet west from west line County; 8.3 feet north from south line Madison,		1		
Madison, at watering-cart hydrant,	17.3 feet east from east line Fourth; 8.5 feet north from south line Madison,		1		
Maiden lane,	2 feet west from east line First; 10 feet south from north line lane,		1		
Merrimac court,	On north line Merrimac; 8 feet east from west line court,			1	
Mill, at watering-cart hydrant,	9.3 feet west from west line Purchase; 8.2 feet north from south line Mill,		1		

List of Small Sized Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE. 3 in.	2 in.	1 in.	¾ in.
Morgan,	0.5 foot west from west line Florence; 13.7 feet north from south line Morgan,				1
Mt. Pleasant court,	On west line Mt. Pleasant; 7 feet north from south line court,				1
Mt. Vernon, at watering-cart hydrant,	13.4 feet west from west line Mt. Pleasant; 8.5 feet north from south line Mt. Vernon,		1		
Myrtle,	1.2 feet south from south line Peckham; 14.3 feet east from west line Myrtle,				1
North Oak,	1.2 feet south from north line Pope; 14 feet east from west line North Oak,		1		
Old Point road, at watering-cart hdt.,	58.2 feet east from east line French avenue; 7.3 feet north from south line road,		1		
Oneko lane,	On north line Coffin avenue; 6.2 feet east from west line Oneko lane,	1			
Pleasant, at watering-cart hydrant,	9.6 feet north from north line Mechanics lane; 8.2 feet west from east line Pleasant,		1		
Reynolds, at watering-cart hydrant,	8.4 feet north from north line Linden; 8.2 feet east from west line Reynolds,		1		
Robeson, at watering-cart hydrant,	37.8 feet west from west line Cedar; 6.8 feet north from south line Robeson,		1		
Seventh,	On north line Bedford; 13.6 feet east from west line Seventh,		1		
Smith street court,	6.7 feet south from north line Smith; 12 feet west from east line court,	1			
Smith, at watering-cart hydrant,	52.2 feet east from east line Park; 7.5 feet north from south line Smith,		1		
Smith,	On east line County; 15.5 feet north from south line Smith,		1		
Sullivan,	On north line Middle; 18 feet west from east line Sullivan,		1		
Summer, at watering-cart hydrant,	3.7 feet north from north line Hillman; 7.9 feet east from west line Summer,		1		
Swamp,	1.4 feet west from east line Cedar; 14 feet north from south line Swamp,		1		
Sycamore, at watering-cart hydrant,	77.2 feet west from west line County; 8.4 feet north from south line Sycamore,		1		
Thompson, at watering-cart hydrant,	71.5 feet west from west line Warwick; 7.9 feet north from south line Thompson,		1		
Turner's court,	6.4 feet west from east line Acushnet avenue; 8.4 feet north from south line court,				1

List of Small Sized Stop Gates — *Concluded.*

STREETS.	LOCATION.	SIZE.			
		3 in.	2 in.	1 in.	3/4 in.
Union, at watering-cart hydrant,	64.8 feet west from west line County; 8.6 feet north from south line Union,		1		
Ward,	On north line Allen; 14.2 feet east from west line Ward,				1
Water, at watering-cart hydrant,	5.8 feet south from south line Blackmer; 8.2 feet east from west line Water,		1		
Waverly,	1 foot north from north line Allen; 14 feet east from west line Waverly,	1			
William, at watering-cart hydrant,	27.2 feet east from east line Second; 8.3 feet north from south line William,		1		
Willis, at watering-cart hydrant,	7.5 feet east from east line Acushnet avenue; 3.3 feet north from south line Willis,		1		
	Totals,	4	5	1	2

Total number in use, 63.

TABLE O.

Complete List of Private Stop Gates.

STREETS.	LOCATION.	SIZE.				
		8 in.	6 in.	4 in.	3 in.	2 in.
Acushnet avenue, at Wamsutta mills,	140.4 feet north from north line Wamsutta; 16 feet west from east line Acushnet avenue; 3.5 feet north from south line fire escape No. 1,		1			
Acushnet avenue, at Wamsutta mills,	253 feet north from north line Wamsutta; 15.4 feet west from east line Acushnet avenue,		1			
Acushnet avenue, at Wamsutta mills,	382.6 feet north from north line Wamsutta; 14.6 feet west from east line Acushnet avenue; 4 feet south from north line fire escape No. 2,		1			
Acushnet avenue, at Wamsutta mills,	439 feet south from south line Logan; 12.7 feet west from east line Acushnet avenue; 20.4 feet north from north line fire escape No. 3,	1				
Acushnet avenue, at Wamsutta mills,	322 feet south from south line Logan; 13.3 feet west from east line Acushnet avenue; on north line fire escape No. 4,		1			
Acushnet avenue, at Wamsutta mills,	119 feet south from south line Logan; 11.8 feet west from east line Acushnet avenue; 4.7 feet south from south line fire escape No. 5,		1			
Acushnet avenue, at O. C. R. R.,	326 feet south from south line Logan; 49 feet west from east line Acushnet avenue; 7 feet north from north line hydrant,			1		
Acushnet avenue, at freight house,	76 feet south from south line Seneca; 5 feet east from west line Acushnet avenue,			1		
Acushnet avenue, at O. C. R. R.,	132.2 feet south from south line Pearl; 0.8 foot west from east line Acushnet avenue; 1.8 feet north from south line house No. 609,				1	
Acushnet avenue, at Gosnold mills,	77 feet south from south line Campbell; 19.7 feet west from east line Acushnet avenue,			1		
Acushnet avenue, at W. T. Meagher's,	2.6 feet north from north line Barker's lane; 8.4 feet east from west line Acushnet avenue,				1	
Acushnet avenue, at Taber, Read & Gardner's,	51.3 feet north from north line Union; 6.8 feet west from east line Acushnet avenue,					1

List of Private Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE.				
		8 in.	6 in.	4 in.	3 in.	2 in.
Acushnet avenue, at Acushnet Co-operative store,	23 feet south from south line Russell; 6.4 feet east from west line Acushnet avenue; 10.3 feet north from south line store (set 1888),					1
Acushnet avenue, at Monte Pio store,	20 feet north from north line Howland; 7.6 feet west from east line Acushnet avenue,					1
Allen, at W. L. Palmer's,	25.6 feet west from west line Bonney; 6.8 feet north from south line Allen; 6 feet east from west line house (set 1889),					1
Ash, at Cordage Co.,	67.5 feet north from north line Court; 10 feet east from west line Ash; 3.6 feet south from south line building,		1			
Ash, at House of Correction,	111 feet north from north line Union; 8 feet west from east line Ash; 32.9 feet south from south line doorway,					1
Bedford, at Morse Twist Drill,	79 feet west from west line Fourth; 9.6 feet north from south line Bedford; 12 feet east from west line shop,			1		
Bedford, at No. 4 engine house,	6.5 feet south from north line Bedford; 47.5 feet west from west line Sixth; 18.3 feet east from west line building,			1		
Cedar Grove, at school house,	89.2 feet west from west line Howard; 6.8 feet south from north line Cedar Grove; 25 feet west from east line building,					1
Central wharf,	154 feet east from east line Front; 56 feet south from north line wharf,				1	
Cherry, at A. H. Howland's,	36.1 feet east from east line Seventh; 5.2 feet north from south line Cherry,					1
Coffin, at Gas Light Co.'s,	259.8 feet east from east line Water; 6.3 feet south from north line Coffin,			1		
Cottage, at J. S. Sisson's,	26.3 feet north from north line Allen; 6.6 feet east from west line Cottage,					1
Court, at Bristol Co. Court house,	166.2 feet west from west line County; 6.4 feet north from south line Court; 10.9 feet east from west line building,					1
Court, at House of Correction,	11.5 feet west from east line Cedar; 13.5 feet north from south line Court,				1	
Cove, at Viall's slaughter house,	759 feet east from east line Water; 0.7 foot north from south line Cove; 11.8 feet east from west line lane,					1

List of Private Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE.				
		8 in.	6 in.	4 in.	3 in.	2 in.
Dartmouth, at Geo. E. Briggs',	63.4 feet north from north line Fair; 7.8 feet west from east line Dartmouth; 4.4 feet north from north line shop,					1
Dartmouth, at Rural cemetery,	8 feet south from south line body house; 5.3 feet east from west line Dartmouth,				1	
Eighth, at Unitarian church,	122.9 feet north from north line Union; 6.9 feet east from west line Eighth; 8.5 feet south from north line body of church,					1
Elm, at North Congregational ch.,	11.7 feet west from west line Purchase; 7.7 feet north from south line Elm; 6 feet east from east line body of church,				1	
Emerson, at Cordage Co.'s,	100 feet north from north line Court; 12 feet west from east line Emerson,		1			
Fifth, at school house,	93.7 feet south from south line Russell; 7 feet east from west line Fifth; 22.1 feet north from south line building,					1
Fifth, at St. John's church,	63.4 feet north from north line Wing; 7 feet east from west line Fifth; 10 feet south from north line church,					1
Fourth, at Morse Twist Drill Co.'s,	115.3 feet south from south line Bedford; 10.5 feet east from west line Fourth,			1		
Front, at Copper Works,	399 feet south from south line Logan; 20.8 feet south from south line office; 9 feet west from east line fence; 5.4 feet west from east line Front,			1		
Front, at Wamsutta mills,	394.9 feet north from north line Wamsutta; 8.7 feet north from south line mill; 9.5 feet east from west line Front,	1				
Front, at Wamsutta mills, at private hydrant,	336 feet north from north line Wamsutta; 13.6 feet north from north line shed; 8.5 feet east from west line Front,			1		
Front, at W. F. Potter & Co.'s,	31.5 feet north from north line Union; 5.3 feet west from east line Front; 11 feet south from north line building,			1		
Front, at Edward Swan's,	82.6 feet south from south line Commercial; 8.7 feet east from west line Front; 6.2 feet north from south line building,				1	

List of Private Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE.				
		8 in.	6 in.	4 in.	3 in.	2 in.
Front, at Electric Light Co.'s,	62.6 feet north from north line School; 10.6 feet east from west line Front; 32.8 feet north from south line building,					1
Front, at Acushnet mills,	14 feet north from south line Delano; 9.3 feet west from east line Front; 16 feet south from south line mill,		1			
George Howland's wharf,	154.1 feet east from east line Water; 27.5 feet south from north line wharf,				1	
Gifford, at Acushnet mill,	343.5 feet east from east line Water; 6 feet south from north line Gifford,		1			
Gifford,	At Acushnet mill meter,			3		
Gifford,	At Hathaway mill meter,			3		
Gifford, at Hathaway mill,	445.7 feet east from east line Water; 31 feet north from south line Gifford,		1			
Grinnell, at City Mfg. Co.'s,	244.7 feet east from east line Prospect; 18.2 feet north from south line Grinnell,		1			
Grinnell,	At City Manufacturing Co.'s meter,		2			
Grinnell, at hydrant,	96 feet east from east line Prospect; 9 feet north from south line Grinnell,			1		
Hall's court, at T. B. Wilcox's	106 feet south from south line William; 2 feet south from north line brick building; 1.7 feet west from east line court (set 1888),				1	
Hasting's wharf,	West of meter,					1
Hazard's wharf,	East of Front,					1
Hicks, at Nazaire Boivin's,	65 feet west from west line Front; 6.8 feet south from north line Hicks; 15.6 feet west from west line body of house,					1
Hillman, at flour mill,	86 feet west from west line Water; 21.9 feet north from south line Hillman,			1		
Hillman, at New Bedford Mfg. Co.'s,	153.5 feet east from east line Second; 8.7 feet north from south line Hillman,		1			
Hillman,	At N. B. Mfg. Co. meter,		3			
Hillman, at St. Lawrence church,	56.7 feet west from west line County; 8.3 feet north from south line Hillman,				1	
Howland mill,	1 foot west from east line Bolton road; 11 feet south from south line house No. 26,	1				
Howland mill,	At Howland mill No. 1 meter,		3			

List of Private Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE.				
		8 in.	6 in.	4 in.	3 in.	2 in.
Howland mill,	At Howland mill No. 2 meter,		3			
Howland mill,	7 feet north from south line private way at mill No. 2; on east line Bolton road,		1			
Kempton,	39.6 feet west from west line Purchase; 7 feet south from north line house; 5.3 feet east from west line house,				1	
Kempton, at Cordage Co.'s,	95.3 feet east from east line Emerson; 10.4 feet north from south line Kempton; 5.2 feet west from east line long building,		1			
Kilburn, at Grinnell mills,	342 feet east from east line Rock; 10 feet north from south line Kilburn; 33 feet west from west line escape,	1				
Kilburn, at Grinnell mills,	4 feet east from east line Rock; 10 feet north from south line Kilburn,	1				
Kilburn, at Grinnell mills,	101 feet west from west line Rock; 9. 6 feet north from south line Kilburn; 6.3 feet east from east line doorway,			1		
Kilburn, at Grinnell mills,	146.7 feet east from east line Front; 9.4 feet north from south line Kilburn; 54 feet east from east line office building,		1			
Logan, at O. C. locomotive house,	229 feet east from east line Purchase; 11.6 feet north from south line Logan; 16.4 feet west from west line Bowditch,			1		
Madison, at school house,	48.9 feet east from east line Fourth; 7.3 feet north from south line Madison; 15.7 feet west from east line body house,					1
Maxfield, at school house,	15.3 feet east from east line Cedar; 6.2 feet south from north line Maxfield; 5.6 feet east from west line house,					1
Maxfield at City Stable,	91 feet west from west line Ash; 6.4 feet north from south line Maxfield; 4.5 feet west from east line driveway (set 1888),			1		
Mechanics lane, at Baptist church,	134.5 feet west from west line Sixth; 1.7 feet north from south line lane; 15 feet east from west line church,				1	
Merrill's wharf,	204 feet east of Front,				1	
Merrill's wharf,	450.2 feet east of Front,					1

LIST OF PRIVATE STOP GATES — *Continued.*

STREETS.	LOCATION.	SIZE.				
		8 in.	6 in.	4 in.	3 in.	2 in.
Middle, at Electric Lighting Co.'s,	100 feet east from east line Purchase; 15.2 feet west from east line building; 11 feet south from north line Middle,					1
Middle, at Electric Lighting Co.'s,	95.2 feet east from east line Purchase; 19.8 feet west from east line building; 7 feet south from north line Middle,				1	
Middle, at school house,	92.1 feet west from west line Summer; 6.7 feet north from south line Middle; 25.8 feet west from east line building,					1
Mill, at school house,	91 feet east from east line Chestnut; 7.2 feet south from north line Mill; 31.9 feet east from west line building,				1	
North,	At New Bedford Manufacturing Co.'s meter,		3			
North, at New Bedford Mfg. Co.'s,	127.4 feet west from west line Water; 8.2 feet south from north line North,		1			
Park place, at S. P. Richmond's,	158.2 feet west from west line Sixth; 5 feet north from south line Park place; 7.9 feet west from west line barn,				1	
Park place, at Opera House,	94 feet west from west line Sixth; 4.6 feet north from south line Park place; 26 feet east from west line building,				1	
Parker, at cemetery,	On north line Parker; 5.4 feet east from east line west gate-post,				1	
Parker, at cemetery,	7.2 feet north from south line Parker; 5 feet east from east line west gate-post,				1	
Parker, at cemetery,	10 feet west from east line west gate-post; 18.6 feet north from south line Parker,				1	
Pearl, at O. C. R. R. depot,	80.4 feet west from west line Acushnet avenue; 21 feet north from south line Pearl,			1		
Phil. and Reading Coal & Iron Co.'s,	53.6 feet east from east line Front; 13.6 feet north from south line Walnut,				1	
Pine, at Greene & Wood's,	40 feet east from west line Cross; 9 feet north from south line Pine,			1		
Pleasant, at Maxfield street school,	69.6 feet north from north line Maxfield; 6.7 feet east from west line Pleasant; 25.6 feet north from south line building,					1

List of Private Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE.				
		8 in.	6 in.	4 in.	3 in.	2 in.
Pleasant, at Odd Fellows building,	25.4 feet north from north line William; 7.8 feet west from east line Pleasant,					1
Pleasant, at W. M. Bates',	96.7 feet south from south line William; 9.5 feet west from east line Pleasant; 5.3 feet south from north line building,				1	
Potomska, at Potomska mills,	14.5 feet east from west line Prospect; 11.3 feet north from south line Potomska,		1			
Prospect, at Pairpoint Mfg. Co.'s,	41.5 feet south from south line Howland; 8.6 feet west from east line Prospect,		1			
Prospect, at Pairpoint Mfg. Co.'s,	43 feet south from south line Howland; 8.6 feet west from east line Prospect,			1		
Prospect,	East of Pairpoint Manufacturing Co.'s meter,			1		
Prospect, at Mt. Washington Glass Works,	138.4 feet south from south line Howland; 9.4 feet west from east line Prospect; on north line brick building,					1
Purchase,	At Oneko mill meter,		3			
Purchase, at Oneko mill,	1 foot west from east line Purchase; 301 feet south from south line Purchase,		1			
Purchase, at Wamsutta mills store house,	41 feet north from north line Austin; 18 feet west from east line Purchase,		1			
Purchase, at Benj. Dawson's,	53.4 feet south from south line Hazard; 7.1 feet east from west line Purchase; 13.8 feet north from south line building,					1
Purchase, at Liberty Hall,	30.2 feet north from north line William; 9 feet east from west line Purchase,				1	
Pumping station,	Fire pipe into building,			1		
Pumping station,	Pipe to fire hydrant,		1			
Rodman, at Mechanics bank,	25.5 feet east from east line Water; 10.7 feet north from south line Rodman,			1		
Rotch's south wharf,	180.5 feet east from east line Front; 30.5 feet south from north line Rodman,				1	
Rotch's north wharf,	180.5 feet east from east line Front; 23.2 feet south from north line Rodman,				1	
Sawyer,	At Bennett mill meter,		3			

List of Private Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE.				
		8 in.	6 in.	4 in.	3 in.	2 in.
Sawyer, at hydrant at Bennett mill,	9 feet north from south line Sawyer; 61 feet east from east line mill,			1		
School, at Trinitarian church,	91.6 feet west from west line Fourth; 6.6 feet north from south line School,					1
School, at Grace church,	118 feet east from east line County; 7.7 feet south from north line School; 7.6 feet west from east line church,					1
Sears court, at C. W. Hurll's,	57 feet west from west line Purchase; 4.6 feet south from north line court; 21.3 feet east from west line building,					1
Taber's wharf,	149.5 feet east from east line Front; 16 feet south from south line brick building,				1	
Union, at I. C. Sherman & Son's,	43.4 feet east from east line First; 8.4 feet north from south line Union (set 1889),				1	
Union, at Driscoll, Church & Hall's,	36.2 feet east from east line First; 8.4 feet north from south line Union; 1.4 feet west from east line building,				1	
Union, at D. J. Kane & Bro.'s,	62.2 feet east from east line Acushnet avenue; 9.8 feet north from south line Union; 28.8 feet east from west line building,					1
Union, at David B. Folger's,	26 feet east from east line Acushnet avenue; 8.8 feet north from south line Union; 7.4 feet west from east line building,					1
Union, at Geo. M. Eddy's,	45.4 feet west from west line Purchase; 9.6 feet south from north line Union; 5.8 feet west from east line building,				1	
Union, at William J. Rotch's,	141.5 feet west from west line County; 11 feet north from south line Union,			1		
Union, at House of Correction,	17.4 feet west from east line Arch; 7 feet north from north line building,				1	
Wamsutta, at Wamsutta mills,	452.5 feet east from east line Acushnet avenue; 14 feet south from north line Wamsutta; 21 feet west from escape ladder, mill No. 2,		1			
Wamsutta, at Wamsutta mills,	186.9 feet west from west line Front: 58.7 feet east from west line Mill No. 3; 15 feet south from north line Wamsutta,		1			

List of Private Stop Gates — *Concluded.*

STREETS.	LOCATION.	SIZE.				
		8 in.	6 in.	4 in.	3 in.	2 in.
Wamsutta, at Wamsutta mills,	110.7 feet west from west line Front; 14 feet south from north line Wamsutta; 5.4 feet east from east side basement doorway,		1			
Wamsutta, at Wamsutta mills,	196.8 feet west from west line Front; 58.8 feet east from west line mill No. 3; 15 feet south from north line Wamsutta,		1			
Water, at G. S. Fales',	16.3 feet north from north line Elm; 6.2 feet east from west line Water,				1	
Water, at Gas Co.'s office,	3.2 feet south from north line Madison; 14 feet west from east line Water,			1		
Water, at Grinnell's foundry,	123 feet south from south line Coffin; 6.2 feet west from east line Water; 6.6 feet south from north line office,					1
Water, at Potomska mills,	245.5 feet north from north line Rivet; 12.5 feet west from east line Water; 7.9 feet north from south line lane,		1			
William, at Wood, Brightman & Co.'s,	35 feet west from west line Water; 7.3 feet north from south line William; 15.6 feet east from west line house,					1
William, at Waite's building,	76 feet west from west line Acushnet avenue; 5.6 feet south from north line William; 3 feet west from west line building,				1	
William, at Haskell & Tripp's,	57.7 feet east from east line Purchase; 8.5 feet north from south line William; 15.8 feet west from east line building,				1	
William, at C. S. & B. Cummings',	118 feet east from east line Pleasant; 7.8 feet north from south line William; 16 feet east from west line building,					1
William, at Wordell Bros.',	82.9 feet east from east line Pleasant; 8 feet north from south line William; 8.4 feet west from east line building,					1
	Totals,	5	46	30	33	36

Total number in use, 150.

(The gate on City wharf was removed in 1889.)

TABLE P.

Complete List of Waste Gates.

STREETS.	LOCATION.	SIZE. 4 in.	1½ in.	1 in.
Acushnet av., south of Tarkiln Hill road,	570 feet south from south line Tarkiln Hill road; 15.5 feet east from west line Acushnet avenue,	1		
Acushnet av.. so. of No. Belleville rd.,	413.4 feet south from south line road; 16.6 feet east from west line avenue,	1		
Acushnet avenue, at Coggeshall,	2.5 feet north from north line Coggeshall; 21 feet east from west line avenue,	1		
Acushnet avenue, at Spring,	16.8 feet north from south line Spring; 16 feet east from west line avenue,	1		
Acushnet avenue, at Cannon,	24.5 feet south from north line Cannon; 24.5 feet west from east line avenue,	1		
Arnold, east of Orchard,	81.8 feet east from east line Orchard; 16.1 feet north from south line Arnold,	1		
Arnold, at Tripp's brook,	139 feet west from west line Chancery; 17.6 feet north from south line Arnold,	1		
Ash, at Middle,	8.8 feet north from south line Middle; 20 feet east from west line Ash,	1		
Austin, west of Cedar,	224 feet west from west line Cedar; 17 feet north from south line Austin,	1		
Bedford, at Acushnet avenue,	3 feet east from west line Acushnet av.; 17.2 feet north from south line Bedford,	1		
Bedford, at Sixth,	19 feet east from west line Sixth; 17.2 feet north from south line Bedford,	1		
Bedford, at Borden,	13.5 feet east from west line Borden; 10.5 feet north from south line Bedford,	1		
Bonney, at Rivet,	2.3 feet south from south line Rivet; 21.7 feet east from west line Bonney,	1		
Campbell, west of Emerson,	196 feet west from west line Emerson; 16.2 feet north from south line Campbell,			1
Cedar, at Hillman,	8 feet south from north line Hillman; 11.5 feet east from west line Cedar,	1		
Cottage, north of Allen,	16.2 feet north from north line Allen; 17 feet east from west line Cottage,	1		
County, at Grinnell,	17 feet north from south line Grinnell; 24.3 feet west from east line Sixth,	1		
County, at Smith,	1.4 feet south from north line Smith; 19.5 feet east from west line County,	1		
County, at Robeson,	8 feet south from north line Robeson; 18.6 feet east from west line County (north),	1		
Court, at Tripp's brook,	99.8 feet west from west line Park; 15.5 feet north from south line Court,	1		
Durfee, at Wilson,	15.4 feet east from west line Wilson; 11.6 feet north from south line Durfee,	1		
Elm, at Pleasant,	15 feet north from south line Elm; 27.6 feet west from east line Pleasant,	1		

List of Waste Gates — *Continued.*

STREETS.	LOCATION.	SIZE. 4 in.	1½ in.	1 in.
Grinnell, at Fifth,	20 feet north from south line Grinnell; 18.5 feet east from west line Fifth,	1		
Hillman, east of Water,	13 feet north from south line Hillman; 20.8 feet east from west line Water,	1		
Hillman, at Purchase,	3 feet west from west line Purchase; 18.2 feet north from south line Hillman,		1	
Howland, at Prospect,	18.6 feet east from west line Prospect; 12.3 feet north from south line Howland,	1		
Kempton, at Tripp's brook,	99 feet east from east line Newton; 9.4 feet north from south line Kempton,	1		
Linden, at State,	14.4 feet west from west line State; 23 feet north from south line Linden,	1		
Margin, near Cove road,	8 feet north from north line Cove road; 6.4 feet east from west line Margin,			1
Maxfield, at Pleasant,	22.6 feet west from east line Pleasant; 16.3 feet north from south line Maxfield,	1		
Maxfield, at Pleasant,	3.4 feet west from west line Pleasant; 17.6 feet north from south line Maxfield,	1		
Merrimac, at State,	18.2 feet west from east line State; 19.4 feet north from south line Merrimac,	1		
Middle, at Purchase,	3.5 feet west from west line Purchase; 16.8 feet north from south line Middle,		1	
Middle, at Cedar,	4.5 feet east from east line Cedar; 16.7 feet north from south line Middle,		1	
Mill, at Pleasant,	1.7 feet west from west line Pleasant; 18.7 feet north from south line Mill,	1		
North, at Cedar,	4.7 feet east from east line Cedar; 16 feet north from south line North,		1	
North, at Pleasant,	0.4 foot east from west line Pleasant; 19 feet north from south line North,	1		
North, at Water,	26 feet west from west line Water; 24.2 feet south from north line North,	1		
Orchard, south of Washington,	176.5 feet south from south line Washington; 16 feet east from west line Orchard,			1
Parker, at Park,	19.7 feet west from west line Park; 7.4 feet north from south line Parker,	1		
Peckham, at Mt. Pleasant,	3.7 feet west from east line Mt. Pleasant; 18.3 feet south from north line Peckham,	1		
Penniman, at State,	17 feet east from west line State; 19 feet north from south line Penniman,	1		
Pearl, at Pleasant,	17.3 feet east from west line Pleasant; 8.6 feet south from south line Pearl,	1		
Pearl, at Pleasant,	18.4 feet east from west line Pleasant; 10.3 feet north from south line Pearl,	1		
Pleasant, at William,	4 feet south from north line William; 17.2 feet east from west line Pleasant,	1		
Pleasant, at William,	3 feet north from north line William; 17.9 feet east from west line Pleasant,	1		

List of Waste Gates — *Concluded.*

STREETS.	LOCATION.	SIZE. 4 in.	1½ in.	1 in.
Potomska, at Water,	11.1 feet east from west line Water; 15.5 feet north from south line Potomska,	1		
Purchase, at Hillman,	3.2 feet north from south line Hillman; 11.5 feet east from west line Purchase,		1	
Purchase, at Willis,	1.5 feet south from south line Willis; 17.7 feet east from west line Purchase,		1	
Purchase, at Clark,	9.2 feet north from south line Clark; 30 feet east from west line Purchase,	1		
Purchase, at Coggeshall,	35 feet north from south line Coggeshall; 19.7 feet east from west line Purchase,	1		
Purchase, at Oneko mill,	282 feet south from south line Purchase; 21 feet east from west line Purchase,	1		
Rockland, at Crapo,	12.9 feet east from west line Crapo; 11.4 feet north from south line Rockland,	1		
Second, at Potomska,	10.9 feet north from south line Potomska; 14.2 feet east from west line Second,	1		
Smith, east of County,	190 feet east from east line County; 36.7 feet south from north line Smith,			1
Smith street court, end of pipe,	4 feet east from west line court; 148.8 feet north from north line Smith,			1
Spruce, at Hillman,	18.9 feet north from south line Hillman; 11.7 feet east from west line Spruce,		1	
State, at Linden,	1 foot north from south line Linden; 15.5 feet east from west line State,	1		
Summer, at Willis,	14.5 feet south from north line Willis; 16.5 feet east from west line Summer,	1		
Union, at Sixth,	4.4 feet west from west line Sixth; 19.6 feet north from south line Union,	1		
Union, at Fourth,	1 foot west from west line Fourth; 19.7 feet north from south line Union,		1	
Walnut, at Sixth,	14.8 feet west from east line Sixth; 17.2 feet north from south line Walnut,	1		
Water, at Coffin,	14.4 feet north from south line Coffin; 6.4 feet west from east line Water,	1		
Water, north of Grinnell,	245.7 feet north from north line Grinnell; 19.2 feet east from west line Water,	1		
Water, at Potomska,	25.4 feet south from south line Potomska; 17.2 feet east from west line Water,	1		
William, at Purchase,	1.2 feet east from west line Purchase; 18 feet north from south line William,		1	
Willis, at Purchase,	5.5 feet west from west line Purchase; 15.2 feet north from south line Willis,		1	
Willis, at Chestnut,	2.2 feet west from west line Chestnut; 17 feet north from south line Willis,	1		
	Totals,	53	10	5

Total number in use, 68.

(The gate in Blackmer street at Water was removed in 1888.)

TABLE Q.

Motors.

LOCATION.	USED FOR.	Size of Supply Pipe.
Acushnet Coöperative Association, 213 Acushnet avenue,	Grinding coffee.	1 inch.
Baptist church, William street,	Blowing organ.	2½ "
Boivin, Nazaire, 7 Hicks street,	Circular saw.	2 "
Briggs, George E., Dartmouth street,	Lathe.	2 "
Central Union store, 5 North Sixth street,	Grinding coffee.	1¼ "
Chadwick, Edward E., William street,	Sausage cutting.	2 "
Cummings, C. S. & B., 102 William street,	Grinding coffee.	2 "
Dawson, Benjamin, Purchase and Hazard,	Elevator.	1½ "
Driscol, Church & Hall, Union and First sts.,	Elevator.	3 "
Folger, David B., 140 Union street,	Grinding coffee.	1 "
Haskell & Tripp, William street,	Elevator.	3 "
Hayes, N. P., William street,	Elevator.	1 "
Jay, James A., 13 South Second street,	Clipping machine.	1 "
Kane, D. J. & Bro., Union street,	Book bindery.	2 "
Macy, J. Roland, 186 Union street,	Grinding coffee.	1 "
Monte Pio Coöperative Association, Acushnet avenue and Howland street,	Grinding coffee.	2 "
Moynan & Co., Union street,	Elevator.	3 "
Nesbett, F. B., 160 Purchase street,	Dentist.	⅝ "
North Congregational church, Purchase and Elm streets,	Blowing organ.	3 "
Palmer, William L., 30 Allen street,	Grinding coffee.	2 "
Parker House, Purchase street,	Cash system.	1 "
Potter, W. F. & Co., Front and Union sts.,	Grinding coffee.	1 "
Sherman, I. C. & Son, 76 Union street,	Elevator.	3 "
St. John Baptist church, Fifth street,	Blowing organ.	2 "
St. Lawrence church, County and Hillman streets,	Blowing organ.	3 "
Sisson, Joseph S., Allen and Cottage sts.,	Grinding coffee.	2 "
Swan, Edward, Front street,	Wood turning.	3 "
Thatcher, George M., Rockland street,	Lathe.	1 "
Unitarian church, Union and Eighth sts.,	Blowing organ.	2 "
Ward, Dr. E. F., Union and Sixth streets,	Sewing machine.	⅝ "

Total number of motors in use, December 1, 1890, 30.

TABLE R.

Meters.

LOCATION.	PATTERN.	SIZE.
Acushnet Coöperative Association, 213 Acushnet avenue,	Union rotary.	1 inch.
Acushnet mill No. 1,	Union rotary.	6 "
Acushnet mill No. 2,	Union rotary.	4 "
Allen, Henry H., 23 South Sixth street,	Crown.	1 "
Allen, John S., 100 State street,	Union rotary.	$\frac{5}{8}$ "
Allen, John S., 102 State street,	Crown.	$\frac{5}{8}$ "
Allen, Mrs. John, 343 Purchase street,	Crown.	$\frac{5}{8}$ "
Allen, Timothy C., 188 Grinnell street,	Crown.	$\frac{5}{8}$ "
Bennett mill,	Union rotary.	6 "
Blackler, Mrs. A. M., 111 Summer street,	Union rotary.	$\frac{3}{4}$ "
Boivin, Nazaire, 7 Hicks street,	Union rotary.	$1\frac{1}{2}$ "
Brightman, George A., 35 Smith street,	Crown.	$\frac{1}{2}$ "
Brightman, Nathan, 107 Elm street,	Crown.	3 "
Briggs, Daniel D., 43 Bedford street,	Crown.	$\frac{5}{8}$ "
Briggs, George E., Dartmouth street,	Union rotary.	$1\frac{1}{2}$ "
Brownell, Albion T., Madison and Fifth streets,	Crown.	$\frac{5}{8}$ "
Buffington, Arthur E., 27 Crapo street,	Crown.	$\frac{1}{2}$ "
Caldwell, S. C., 365 Pleasant street,	Union rotary.	$\frac{5}{8}$ "
Caldwell, S. C., 367 Pleasant street,	Crown.	$\frac{5}{8}$ "
Central wharf,	Ball & Fitts.	2 "
Cemetery, Rural, Dartmouth street,	Crown.	2 "
Cemetery, Oak Grove, Parker street,	Crown.	3 "
Chadwick, Edward E., William street,	Crown.	3 "
Chase, Nathan, 485 County street,	Crown.	$\frac{3}{4}$ "
Childs, A. F., 6 Wing street,	Hersey.	$\frac{5}{8}$ "
City Manufacturing Co., Grinnell street,	Union rotary.	6 "
Commercial wharf,	Union rotary.	3 "
Cornell, Pardon, Sixth and Grinnell streets,	Crown.	1 "
Davis, Abner T., 34 Fifth street,	Union rotary.	$\frac{5}{8}$ "
Dawson, Benjamin, Purchase and Hazard sts.,	Crown.	$1\frac{1}{2}$ "
Dowden, James, 35 Mill street,	Union rotary.	$\frac{3}{4}$ "
Duff, David & Son, Central wharf,	Crown.	1 "
Duff, David & Son, Fish Island,	Union rotary.	$1\frac{1}{2}$ "
Electric Light Co., Middle street,	Union rotary.	2 "
Elliot, John D., 106 Fourth street,	Hersey.	$\frac{5}{8}$ "
Fish, L. C., 59 Sycamore street,	Crown.	$\frac{3}{4}$ "
Folger, David B., 140 Union street,	Thompson.	1 "
Folsom, Simeon, Middle and Purchase streets,	Union rotary.	1 "
Gifford, T. J., Ashland and Austin streets,	Crown.	$\frac{5}{8}$ "
Gifford, T. J., 34 Hillman street,	Crown.	$\frac{3}{4}$ "
Gifford, T. J., 32 Hillman street,	Crown.	$\frac{5}{8}$ "
Grinnell mill, Kilburn street,	Union rotary.	4 "
Hall, S. M., 161 Pleasant street,	Crown.	$\frac{3}{4}$ "
Hammond, Henry F., 79 Mill street,	Crown.	$\frac{3}{4}$ "
Haskell & Tripp, William street,	Union rotary.	2 "
Hastings, George, Hastings' building, Purchase street,	Crown.	1 "

METERS — *Continued.*

LOCATION.	PATTERN.	SIZE.
Hathaway mill,	Union rotary.	4 inch.
Hathaway, James C., Florence and Kempton streets,	Crown.	¾ "
Hayes, N. P., William street,	Crown.	1 "
Hazard's wharf,	Union rotary.	2 "
Howland, Mary G., 97 Grinnell street,	Crown.	½ "
Howland, Mary G., 134 Acushnet avenue,	Crown.	½ "
Howland, Geo.'s wharf,	Union rotary.	2 "
Howland, Paul, estate, 91 State street,	Union rotary.	¾ "
Howland mill No. 1,	Union rotary.	6 "
Howland mill No. 2,	Union rotary.	6 "
Jay, James A., Second street,	Crown.	1 "
Kane, D. J. & Bro., 134 Union street,	Crown.	⅝ "
Kirby, Tillinghast, 350 Cottage street,	Crown.	¾ "
Knight, C. W., 88 Purchase street,	Crown.	½ "
Lawton, James M., Jr., 80 State street,	Crown.	¾ "
Lawton, James M., Jr., 202 Union street,	Crown.	¾ "
Lewis, E. R., 321 Union street,	Crown.	1 "
Longfield, Joseph S., 52 Shawmut avenue,	Crown.	⅝ "
Lowell, Clarence, 40 Fifth street,	Crown.	⅝ "
Macomber, William B., 74 State street,	Hersey.	⅝ "
Macy, J. Roland, 186 Union street,	Crown.	1 "
Marquand, James, 35 Maxfield street,	Crown.	⅝ "
Merrill's wharf,	Ball and Fitts.	2 "
Monte Pio Coöperative Association, Acushnet avenue and Howland street,	Thompson.	1 "
Mosher, C. E. E. and H. C. W., 92 High street,	Crown.	¾ "
Moynan & Co., Union street,	Union rotary.	3 "
Mt. Washington Glass Works, Prospect street,	Union rotary.	2 "
Murchie, William A., 82 Chestnut street,	Crown.	¾ "
Murkland, James H., 35 Fifth street,	Hersey.	⅝ "
Murkland, James H., 55 Walnut street,	Hersey.	⅝ "
Myrick, A. G., 101 Middle street,	Hersey.	⅝ "
Nash, Thomas N., Acushnet av. and Nash road,	Crown.	½ "
New Bedford & Martha's Vineyard Steamboat Co.'s wharf,	Crown.	3 "
New Bedford Gas Light Co., Coffin street,	Union rotary.	3 "
New Bedford Manufacturing Co.,	Union rotary.	6 "
New Bedford Manufacturing Co., North street,	Union rotary.	6 "
New Bedford Yacht Club, Pope's Island,	Ball and Fitts.	1 "
Nichols, Leander P., 59 Foster street,	Union rotary.	¾ "
Nichols, Leander P., 49 North street,	Union rotary.	¾ "
Nye, William F., Fish Island,	Crown.	1½ "
Old Colony Railroad Co., Logan street,	Crown.	3 "
Oneko mills, Purchase street,	Union rotary.	6 "
Pairpoint Manufacturing Co., Prospect street,	Union rotary.	3 "
Palmer, E. C., Florence street,	Crown.	⅝ "
Palmer, W. L., 30 Allen street,	Union rotary.	¾ "
Parker, George H., Parker and Chestnut streets,	Thompson.	¾ "
Parker House, Purchase street,	Crown.	¾ "

METERS — *Concluded.*

LOCATION.	PATTERN.	SIZE.
Perry, E. S., Maxfield and Summer streets,	Crown.	¾ inch.
Perry, J. W., 62 Thomas street,	Crown.	¾ "
Perry, Henry C., 671 County street,	Crown.	¾ "
Pelan, Thomas, 278 Kempton street,	Crown.	¾ "
P. & R. Coal and Iron Co.'s wharf,	Crown.	3 "
Pickens, George, 149 Summer street,	Union rotary.	¾ "
Pierce, Frank E., 87 Mill street,	Crown.	¾ "
Poisson, Joseph, 56 Mill street,	Crown.	⅝ "
Potter, William F. & Co., Front street,	Crown.	1 "
Potomska mills, Potomska street,	Union rotary.	6 "
Priestly, George, 28 Parker street,	Union rotary.	¾ "
Quimby, Ezra, 135 Summer street,	Crown.	¾ "
Robeson Building, William street,	Crown.	½ "
Rotch's wharf,	Crown.	3 "
Sherman, I. C. & Son, 76 Union street,	Union rotary.	2 "
Sisson, Joseph S., Allen and Cottage streets,	Thompson.	1 "
Smalley, Orrick, Jr., 69 South Sixth street,	Crown.	⅝ "
Stanton, A. G., 198 Grinnell street,	Crown.	¾ "
Sturtevant, Levi H., 36 North street,	Union rotary.	1 "
Swan, Edward, 20 South Front street,	Union rotary.	2 "
Taber's wharf,	Ball and Fitts.	2 "
Thatcher, George M., Rockland street,	Crown.	1 "
Thornton, Alfred, 256 Union street,	Crown.	⅝ "
Tillinghast, Theodore F., Hicks street,	Crown.	¾ "
Vaughan, W. C., Jr., 323 Purchase street,	Crown.	⅝ "
Walker, William, County and Campbell streets,	Crown.	¾ "
Wamsutta mills Nos. 1, 2, and 3,	Union rotary.	6 "
Wamsutta mills Nos. 4 and 5,	Union rotary.	8 "
Wamsutta mill No. 6,	Union rotary.	6 "
Webster, Dr. Helen M., Purchase and Mill sts.,	Equitable.	1 "

Number of meters in use, December 1, 1890, 123.

TABLE S.

Watering Cart Hydrants.

Acushnet avenue, west side, 4.5 feet north from north line So. Belleville road.
Acushnet avenue, west side, 13.5 feet north from north line No. Belleville road.
Acushnet avenue, west side, 11.9 feet south from south line Tarkiln Hill road.
Allen street, north side, 154 feet east of Page.
Bedford street, south side, 86 feet west of Fourth.
Campbell street, south side, 87 feet west of Purchase.
Cedar Grove street, south side, 18 feet west of Acushnet avenue.
Coffin avenue, south side, 16.5 feet west of Acushnet avenue.
Court street, north side, 15 feet east of Ash.
Dartmouth street, east side, 13 feet south of Oak.
First street, west side,118 feet south of School.
First street, west side, 28 feet south of Grinnell.
Grinnell street, south side, 31 feet east of County.
Hawthorn street, south side, 17 feet east of Cottage.
Hawthorn street, head of Tremont.
Hazard street, south side, 21 feet west of Purchase.
Kempton street, south side, 72 feet west of County.
Kempton street, south side, 102 feet east of Newton.
Kempton street, south side, 16 feet east of Rockdale avenue.
Linden street, south side, 30 feet west of Purchase.
Locust street, south side, 25 feet west of County.
Madison street, south side, 17 feet east of Fourth.
Madison street, south side, 39 feet west of County.
Mill street, south side, 9 feet west of Purchase.
Middle Point road, south side, 58 feet east of French avenue.
Mt. Vernon street, south side, 14 feet west of Mt. Pleasant.
Pleasant street, east side, 9 feet north of Mechanics lane.
Reynolds street, west side, 8 feet north of Linden.
Robeson street, south side, 38 feet west of Cedar.
Smith street, south side, 53 feet east of Park.
Summer street, west side, 4 feet north of Hillman.
Sycamore street, south side, 77 feet west of County.
Thompson street, south side, 72 feet west of Warwick.
Union street, south side, 65 feet west of County.
Water street, west side, 6 feet south of Blackmer.
William street, south side, 27 feet east of Second.
Willis street, south side, 7½ feet east of Acushnet avenue.

Number now in use, 37.

TABLE T.

Location of Hydrants.

	Pressure in lbs.
Acushnet avenue, west side, 267 feet north of Tarkiln Hill road. Post.	53
Acushnet avenue, southwest corner of Tarkiln Hill road. Post.	55
Acushnet avenue, west side, south of Tarkiln Hill road 500 feet. Post.	54
Acushnet avenue, west side, south of Tarkiln Hill road 997 feet. Post.	53
Acushnet avenue, west side, north of No. Belleville road 600 feet. Post.	53
Acushnet avenue, west side, north of No. Belleville road 6 feet. Post.	54
Acushnet avenue, west side, south of No. Belleville road 601 feet. Post.	55
Acushnet avenue, west side, north of Shaw 610 feet. Post.	51
Acushnet avenue, northwest corner of Shaw. Post.	47
Acushnet avenue, west side, north of So. Belleville road 603½ feet. Post.	45
Acushnet avenue, west side, head of So. Belleville road. Post.	42
Acushnet avenue, northwest corner of Nash road. Post.	40
Acushnet avenue, northwest corner of Hathaway avenue. Post.	40
Acushnet avenue, northwest corner of Davis. Post.	41
Acushnet avenue, southwest corner of Phillips avenue. Post.	39
Acushnet avenue, southwest corner of Deane. Post.	48
Acushnet avenue, west side, north of Sawyer 574½ feet. Post.	53
Acushnet avenue, southwest corner of Coggeshall. Post.	56
Acushnet avenue, southwest corner of Cedar Grove. Post.	54
Acushnet avenue, west side, south of Logan 335 feet. Post.	60
Acushnet avenue, west side, north of Wamsutta 514 feet. Double.	62
Acushnet avenue, west side, north of Wamsutta 372 feet. Post.	60
Acushnet avenue, west side, south of Wamsutta 255 feet.	63
Acushnet avenue, west side, at end of Wall street. Post.	62
Acushnet avenue, southeast corner of Pope.	64

Acushnet avenue, northwest corner of Willis. 61
Acushnet avenue, west side, south of Campbell 179 feet. 59
Acushnet avenue, northwest corner of Maxfield. 57
Acushnet avenue, northwest corner of Kempton. 47
Acushnet avenue, northeast corner of Elm. 47
Acushnet avenue, northwest corner of School. Post. 51
Acushnet avenue, northwest corner of Madison. Post. 57
Acushnet avenue, northwest corner of Russell. Post. 58
Acushnet avenue, northwest corner of Bedford. Post. 60
Acushnet avenue, west side, opposite Howland. 61
Acushnet avenue, northwest corner of Potomska. Post. 50
Acushnet avenue, west side, north of Rivet 158 feet. Post. 59
Acushnet avenue, southwest corner of Blackmer. 60
Allen street, southeast corner of Bonney. 46
Allen street, northwest corner of Ward. 41
Allen street, north side, east of Page 159 feet. 38
Arch street, southwest corner of Union. 24
Arnold street, south side, west of Orchard 96 feet. Post. 22
Arnold street, southwest corner of Chancery. 33
Arnold street, southeast corner of Atlantic. 32
Ash street, northwest corner of Middle. 27
Ash street, southwest corner of Morgan. Double. 25
Ash street, northwest cornor of Arnold. 32
Ash street, northwest corner of Maple. 34
Ash street, northwest corner of Bedford. Post. 37
Ashland street, west side, head of Linden. 11
Atlantic street, west side, 186 feet south of Arnold. Post. 29
Atlantic street, west side, 390 feet north of Arnold. Post. 30
Austin street, southeast corner of State. Post. 42
Austin street, southwest corner of Purchase. Post. 56
Austin street, southeast corner of Cedar. Post. 19
Austin street, south side, on west line of Wilson. Post. 20
Austin street, southwest corner of Ashland. Post. 15
Austin street, southeast corner of Shawmut avenue. Post. 14
Babbitt street, south side, west of Dartmouth. Post. 42
Bedford street, southwest corner of Fifth. Post. 55
Bedford street, southeast corner of County. 47
Bedford street, southeast corner of Orchard. 37

Beach street, northwest corner of Kempton. Post. 18
Beetle street, south side, east of Acushnet avenue. Post. 57
Blackmer street, south side, east of Front 575 feet. Post. 63
Bolton road, west side, south of Rivet 1027 feet. Post. 59
Bolton road, northwest corner Poplar road. Post. 59
Bonney street, northwest corner of Grinnell. 51
Bonney street, northwest corner of Rockland. Post. 54
Bonney street, west side, 259 feet north of Rivet. Post. 61
Borden street, southwest corner of Bay. Post. 42
Bowditch street, southwest corner of Weld. Post. 56
Bowditch street, west side, 313 feet south of Cedar Grove. Post. . . 55
Bowditch street, west side, north of Cedar Grove 244 feet. Post. . . 55
Bridge avenue, north side, 44 feet west of draw. 62
Bridge avenue, south side, 11 feet west of draw. 62
Brownell street, west side, north of Union 74 feet. Post. 24
Campbell street, south side, east of County 163 feet. 28
Campbell street, southwest corner of Cypress. Post. 19
Campbell street, south side, east of Emerson 205 feet. 18
Cannon street, south side, east of Second 164 feet. Post. 63
Cedar street, northwest corner of Elm. Double. 25
Cedar street, southwest corner of Kempton. 26
Cedar street, west side, north of Mill 75 feet. 23
Cedar street, southwest corner of Hillman. 23
Cedar street, northwest corner of Sycamore. 21
Cedar street, southwest corner of Campbell. 18
Cedar street, southwest corner of Parker. 19
Cedar Grove street, southeast corner of Front. Post. 60
Cedar Grove street, southeast corner of Howard. Post. 58
Cedar Grove street, south side, 383 feet west of Bowditch. Post. . . 57
Cedar Grove street, northwest corner of Purchase. Post. 56
Cedar Grove street, southwest corner of County. Post. 43
Cedar Grove street, south side, west of County. Post. 40
Centre street, south side, east of Water 85 feet. 56
Chancery street, west side, north of Arnold 406 feet. Post. 33
Chancery street, southwest corner of Elm. Post. 28
Chancery street, west side, south of Parker 176 feet. Post. 24
Chancery street, west side, 263 feet north of Parker. Post. 16
Cherry street, southeast corner of Seventh. 38

Chestnut street, southwest corner of North. 19
Chestnut street, west side, north of Campbell 96 feet. 22
Clark street, southwest corner of State. 47
Clark street, south side, 170 feet west of County. Post. 40
Clinton street, south side, east of Orchard 125 feet. 26
Clinton street, south side, west of Ash 242½ feet. Post. 44
Coffin avenue, southwest corner North Purchase. Post. 40
Coffin avenue, south side, opposite Oneko lane. Post. 40
Coffin avenue, southeast corner of Bowditch. Post. 40
Coffin avenue, south side, 347 feet east of Acushnet avenue. Post. . 50
Coffin street, north side, 262 feet east of Water. Post. 62
Coggeshall street, south side, 75 feet west of Rock. Post. 63
Coggeshall street, southwest corner of Front. Post. 61
Coggeshall street, southwest corner of Purchase. Post. 53
Coggeshall street, southeast corner of County. Post. 43
Columbia street, south side, west of Clay. Post. 46
Commercial street, north side, east of Front 82 feet. Post. 62
Cottage road, south side, 435 feet west of Bolton road. Post. 55
Cottage street, southwest corner of Bay. Post. 43
Cottage street, northwest corner of Allen. 42
Cottage street, northwest corner of Bedford. 37
Cottage street, northwest corner of Hawthorn. 31
Cottage street, southwest corner of Arnold. 23
Cottage street, southwest corner of Union. 22
Cottage street, southwest corner of Kempton. Post. 22
Cottage street, northwest corner of Hillman. 20
Cottage street, northwest corner of Sycamore. 20
Cottage street, west side, 237 feet north of Locust. Post. 20
County street, west side, 200 feet north of Coggeshall. Post. 44
County street, southeast corner of Penniman. Post. 44
County street, west side, 234½ feet south of Clark. Post. 43
County street, west side, 115 feet south of Weld. Post. 42
County street, southwest corner of Austin. Post. 33
County street, northwest corner of Locust. Post. 24
County street, northwest corner of Parker. 23
County street, southwest corner of Smith. Post. 30
County street, southwest corner of Maxfield. 25
County street, southwest corner of North. 21

County street, southwest corner of Middle. Double. 22
County street, southwest corner of Morgan. Post. 22
County street, northwest corner of Union. 24
County street, west side, head of School. 27
County street, northwest corner of Madison. 32
County street, southwest corner of Hawthorn. 36
County street, northwest corner of Allen. 49
County street, southwest corner of Grinnell. Post. 61
County street, northwest corner of South. Post. 62
County street, northwest corner of Rockland. 61
County street, southwest corner of Thompson. Post. 58
County street, northwest corner of Rivet. Post. 57
County street, northwest corner of Winsor. Post. 57
County street, west side, 71 feet north of Division. Post. 54
County street, northwest corner of Cove road. Post. 62
Court street, southwest corner of Orchard. 22
Court street, south side, opposite Cedar. 23
Court street, northeast corner of Ash. Post. 20
Court street, south side, opposite Emerson. 26
Court street, south side, west from Park 304 feet. 32
Court street, south side, head of Jenney. Post. 23
Court street, south side, east of Reed 300 feet. Post. 22
Cove street, south side, east of Water 487 feet. 62
Cove street, south side, west of Water 334½ feet. Post. 60
Cove street, southeast corner of County. Post. 72
Crapo street, west side, south of Washington 343 feet. 60
Crapo street, west side, south of Rockland 225 feet. 63
Crapo street, west side, 160 feet south of Thompson. Post. 58
Dartmouth street, east side, southwest of Orchard 110 feet. 47
Dartmouth street, east side, 125 feet south of Hickory. Post. 47
Dartmouth street, east side, 260 feet south of Rockland. Post. 45
Dartmouth street, east side, 99 feet south of Thompson. Post. 44
Dartmouth street, southeast corner of Larch. Post. 42
Delano street, southwest corner of Water. Post. 57
Delano street, southeast corner of Acushnet avenue. Post. 57
Division street, southeast corner of Second. Post. 61
Division street, south side, 527 feet west of County. Post. 62
Division street, south side, east of Crapo 6 feet. Post. 58

Durfee street, southwest corner of Cedar. Post. 15
Durfee street, southwest corner of Bullock avenue. Post. 17
Durfee street, southwest corner of Shawmut avenue. Post. 12
Elm street, southwest corner of Pleasant. 38
Elm street, southwest corner of Summer. 18
Elm street, south side, 43.5 feet west of Florence. Post. 26
Elm street, southeast corner of Reed. Post. 20
Emerson street, southwest corner of Willis. 19
Emerson street, southwest corner of Parker. 18
Fifth street, southwest corner of School. Post. 45
Fifth street, west side, south of Madison 245 feet. 50
Fifth street, northwest corner of Wing. Post. 59
Fifth street, northwest corner of Grinnell. 61
First street, southwest corner of Spring. 58
First street, west side, south of School 109 feet. 57
First street, west side, south of Howland 185 feet. 65
First street, west side, south of South 255 feet. 63
Florence street, west side, north of North 180 feet. Post. 26
Florence street, northwest corner of Mill. Post. 24
Florence street, west side, 199.6 feet south of Kempton. Post. . . . 27
Florence street, southwest corner of Morgan. Post. 29
Forest street, south side, west of County 90 feet. 53
Foster street, southwest corner of Maxfield. 37
Foster street, northwest corner of High. 33
Fourth street, west side, north of School 106 feet. 46
Fourth street, west side, south of Madison 210 feet. 54
Fourth street, east side, opposite Washington. Post. 57
Fourth street, northwest corner of Rockland. 62
Fourth street, west side, south of Potomska 61 feet. Post. 58
Franklin street, southwest corner of Pleasant. 43
Franklin street, southwest corner of State. Post. 38
French avenue, west side, south of Cove road 14 feet. 60
Front street, west side, south of Washburn 319 feet. 62
Front street, west side, south of Logan 383 feet. Post. 63
Front street, southeast corner of Wamsutta. Post. 65
Front street, southwest corner of Hazard's lane. 61
Front street, southwest corner of Centre. 61
Front street, west side, south of Commercial 86 feet. 63

Front street, northwest corner of lane head of Merrill's wharf. . . . 65
Front street, west side, south of Howland 268 feet. Post. 61
Front street, southwest corner of Grinnell. Post. 62
Front street, west side, south of South 330 feet. Post. 62
Front street, west side, north of Delano 191 feet. Post. 62
Fruit street, south side, east of Hemlock 126.5 feet. Post. 53
Fruit street, south side, 45 feet east of Mulberry. Post. 47
Gifford street, south side, 700 feet east of Water. Post. 66
Gifford street, south side, 274 feet east of Water. Post. 65
Grape street, south side, west of Lewis 131 feet. Post. 36
Grape street, south side, west of Lewis 517½ feet. Post. 34
Griffin street, southwest corner of Second. 62
Grinnell street, south side, west of Acushnet avenue 76 feet. 60
Grinnell street, south side, east of Crapo 103 feet. 58
Grinnell street, southwest corner of Orchard. Post. 50
Grove street, southwest corner of Anthony. 32
Harmony street, southwest corner of Social. Post. 59
Harrison street, southwest corner of Hickory. Post. 48
Hawthorn street, southeast corner of Page. 28
Hawthorn street, south side, east of Tremont 147 feet. Post. 28
Hawthorn street, southwest corner of Brigham. Post. 26
Hawthorn street, south side, 301 feet west of Brigham. Post. 24
Hazard street, south side, west of State 140 feet. 36
Hazard street, southwest corner of Pleasant. 46
Hicks street, south side, east of Acushnet avenue 276 feet. Post. . . 56
High street, south side, east of Acushnet avenue 43 feet. 48
High street, south side, east of County 177 feet. 23
Hillman street, southwest corner of Second. 57
Hillman street, southeast corner of Hill. 32
Hillman street, southwest corner of Chancery. Post. 29
Howland street, northeast corner of Second. 63
Irving court, north end of court. 25
James street, west side, 190.5 feet south of Union. Post. 28
Katharine street, south side, 66.7 feet east of Crapo. Post. 62
Kempton street, southwest corner of Pleasant. Post. 36
Kempton street, south side, opposite Hill. 28
Kempton street, southwest corner of Summer. 19
Kempton street, southwest corner of Emerson. 26

Kempton street, southwest corner of Park. 28
Kempton street, southwest corner of Liberty. 29
Kempton street, southeast corner of Jenney. 26
Kempton street, south side, west of Hunter 50 feet. Post. 21
Kempton street, southwest corner of Francis. Post. 14
Kilburn street, north side, east of Front 244 feet. Post. 62
Kilburn street, north side, east of Front 581 feet. Post. 64
Larch street, south side, east of Hemlock. Post. 51
Liberty street, west side, south of Kempton 339 feet. 30
Lincoln street, west side, south of Union 171 feet. 23
Linden street, south side, west of State 13½ feet. Post. 43
Linden street, south side, west of County 169 feet. Post. 34
Linden street, south side, 67½ feet west of Reynolds. Post. 24
Linden street, south side, 6½ feet east of Ashland. Post. 14
Lindsey street, west side, 173 feet south of Kempton. Post. 27
Lindsey street, northwest corner of Morgan. Post. 24
Locust street, southwest corner of Chestnut. Post. 23
Locust street, southeast corner of Richmond. Post. 15
Logan street, southwest corner of North Front. 65
Logan street, south side, east of Acushnet avenue 400 feet. 62
Logan street, southwest corner of Acushnet avenue. 63
Lombard street, west side, 209½ feet south of Rockland. Post. . . . 50
Madison street, southwest corner of First. 61
Madison street, southwest corner of Sixth. Post. 41
Maitland street, south side, west of Cedar 305 feet. Post. 14
Maxfield street, southwest corner of Second. Post. 58
Maxfield street, southwest corner of Pleasant. Post. 38
Maxfield street, southeast corner of Chestnut. 19
Maxfield street, southeast corner of Spruce. 21
Maxfield street, southwest corner of Ash. Post. 22
Mechanics lane, north side, east of Eighth street 206 feet. 30
Merrimac street, southwest corner of State. Post. 41
Middle street, southeast corner of Second. 54
Middle street, southeast corner of Sixth. Double. 36
Middle street, south side, east of Cedar 371 feet. 32
Middle street, southeast corner of Chancery. 29
Mill street, south side, west of Hill 191 feet. 25
Mill street, south side, west of Ash 45 feet. 25

Morgan street, southwest corner of Cottage. 33
Mosher street, south side, west of County 517 feet. Post. 59
Mt. Pleasant street, southeast corner of distributing reservoir. 4
Mt. Pleasant street, west side, north of Durfee 572 feet. 8
Mt. Pleasant street, northwest corner of Durfee. Post. 12
Mt. Vernon street, south side, 359 feet west of Mt. Pleasant. 6
Nelson street, south side, 354 feet west of County. Post. 62
Newton street, northwest corner of Elm. Post. 29
North street, southeast corner of Second. Post. 54
North street, southeast corner of Acushnet avenue. 50
North street, northwest corner of Pleasant. Post. 35
North street, southwest corner of Foster. 35
North street, southwest corner of Park. Post. 29
North street, southeast corner of Newton. Post. 32
North street, southwest corner of Hunter. Post. 22
Oak street, southwest corner of Harrison. Post. 45
Oak street, west side, north of Grape. Post. 42
Ocean street, west side, 184½ feet south of Arnold. Post. 32
Old Point road, west side, east of French avenue 650 feet. 53
Orchard street, west side, head of Madison. 27
Page street, west side, 429½ feet south of Hawthorn. Post. 36
Park place, south side, west of Sixth 306 feet. 32
Park street, west side, south of Kempton 339 feet. Post. 27
Park street, northwest corner of Court. Post. 28
Park street, west side, north of Arnold 263 feet. Post. 34
Parker street, south side Oak Grove Cemetery. Post. 25
Parker street, southwest corner of Summer. 27
Pearl street, southwest corner of Pleasant. Post. 41
Pine street, northwest corner of Cross. 65
Pleasant street, southwest corner of Market. 37
Pleasant street, west side, north of William 21½ feet. Post. 40
Pleasant street, east side, foot of Sycamore. Post. 39
Pleasant street, northwest corner of Pope. 42
Pleasant street, northwest corner of Austin. 47
Pleasant street, southwest corner of Linden. 48
Pleasant street, southwest corner of Weld. Post. 48
Pope street, south side, opposite North Oak. 32
Pope street, south side, east of Chestnut. Post. 26

Poplar road, south side, 431 feet west of Bolton road. Post. 52

Potomska street, { A group of three post hydrants located about 300 feet east of Prospect and 91 feet north of south line of Potomska street. 64

Prospect street, west side, south of Howland 157 feet. 64

Prospect street, northwest corner of Grinnell. Post. 63

Prospect street, west side, north of Potomska 324½ feet. Post. . . . 62

Prospect street, northwest corner of Potomska. Post. 63

Purchase street, northwest corner of Deane. Post. 43

Purchase street, west side, opposite Oneko Mill. Post. 48

Purchase street, east side, opposite Clark. Post. 58

Purchase street, west side, opposite Logan. 58

Purchase street, northwest corner of Merrimac. Double. 51

Purchase street, northwest corner of Pope. 52

Purchase street, southwest corner of Pearl. Double. 52

Purchase street, southwest corner of Campbell. 47

Purchase street, west side, north of Maxfield 343 feet. Double. . . . 46

Purchase street, southwest corner of Hillman. Double. 43

Purchase street, southwest corner of Mill. 42

Purchase street, northwest corner of Middle. 40

Purchase street, west side, at Central engine house. Post. 40

Purchase street, northwest corner of Union. 43

Reed street, west side, 207.8 feet south of Kempton. Post. 18

Reynolds street, southwest corner of Weld. Post. 26

Reynolds street, west side, 268 feet north of Weld. Post. 29

Rivet street, southwest corner of Second. 62

Rivet street, southwest corner of Bonney. Post. 59

Rivet street, southwest corner of Hemlock. Post. 51

Rivet street, southeast corner of Bolton road. Post. 56

Robeson street, southwest corner of County. Post. 26

Robeson street, southwest corner of Ashland. Post. 15

Robeson street, south side, 382 feet west of Ashland. Post. 20

Robeson street, southeast corner of Cedar. Post. 21

Robeson street, south side, 351 feet west of Cedar. Post. 17

Rock street, southwest corner of Washburn. Post. 61

Rock street, west side, north of Coggeshall. Post. 62

Rockland street, southeast corner of Hall. Post. 56

Rockland street, south side, 13 feet west of Orchard. Post. 54

Rockland street, southwest corner of Lombard. Post. 50
Rounds street, northwest corner of Elm. Post. 22
Russell street, south side, east of Fifth 92 feet. 54
Russell street, southwest corner of Sixth. Post. 47
Russell street, south side, 179 feet west of Sixth. Post. 42
Sawyer street, southwest corner of Bowditch. Post. 53
Sawyer street, southwest corner of Acushnet avenue. Post. 59
Sawyer street, southeast corner of Rock. Post. 65
Sawyer street, north side, 717 feet east of Rock. Post. 65
School street, southwest corner Sixth. Post. 37
Second street, northwest corner Mill. 55
Second street, west side, south of Elm 52 feet. Post. 52
Second street, west side, south of Spring 74 feet. 55
Second street, northwest corner of Coffin. 61
Second street, west side, at head of Morgan's lane. Post. 60
Second street, west side, north of Grinnell 61 feet. 63
Second street, west side, north of Potomska 232 feet. Post. 61
Second street, west side, south of Potomska 122 feet. Post. 63
Second street, west side, 188 feet south of Blackmer. Post. 59
Seventh street, southwest corner of Union. Post. 31
Seventh street, west side, north of Madison 50 feet. 36
Shawmut avenue, west side, head of Locust. Post. 17
Shawmut avenue, west side, north of Austin. Post. 13
Sherman street, south side, west of County 314 feet. 51
Sisson street, northwest corner of Union. Post. 25
Sixth street, west side, north of Grinnell 194 feet. Post. 60
Smith street, southwest corner of Chestnut. Double. 22
Smith street, southeast corner of Spruce. Double. 20
Smith street, southeast corner of Emerson. 22
Smith street, south side, east of Park 5 feet. Post. 29
South street, southwest corner of Acushnet avenue. 62
South street, southwest corner of Second. 62
South street, southwest corner of Water. Post. 63
South street, southwest corner of Prospect. 64
South Beach road, southwest corner of Bolton road. Post. 57
South Beach road, south side, 327 feet west of Bolton road. Post. . . 54
Spring street, southeast corner of Acushnet avenue. Post. 51
Spring street, southwest corner of Seventh. 32

Spring street, southeast corner of Fifth. 42
State street, northwest corner of Sycamore. 35
State street, southwest corner of Pearl. 34
Summer street, northwest corner of North. 16
Summer street, northwest corner of Hillman. 16
Summer street, southwest corner of Willis. 26
Sycamore street, southwest corner of Thomas. 30
Sycamore street, southwest corner of Summer. 24
Sycamore street, south side, west of Ash 68 feet. 22
Taber's wharf, south side, north of Union 36 feet. 63
Thomas street, northwest corner of Hillman. 24
Thompson street, south side, 20 feet east of Hall. Post. 58
Tremont street, southwest corner of Union. Post. 26
Tremont street, northwest corner of Maple. Post. 29
Trinity street, south side, west of Cedar. Post. 19
Union street, southwest corner of Water. Double. 57
Union street, southeast corner of Second. 52
Union street, southwest corner of Acushnet avenue. Double. 48
Union street, southwest corner of Sixth. Post. 38
Union street, southeast corner of Emerson. Post. 28
Union street, south side, 344 feet west of Park. Post. 28
Walden street, southwest corner of Maxfield. 31
Wall street, south side, east of Acushnet avenue 165 feet. 62
Walnut street, northwest corner of Front. Post. 61
Walnut street, southwest corner of Second. 57
Walnut street, southeast corner of Fourth. Double. 51
Walnut street, southwest corner of Seventh. Post. 38
Wamsutta street, south side, west of Front 200 feet. Post. 65
Wamsutta street, south side, west of Front 372 feet. Post. 65
Wamsutta street, south side, east of Acushnet ave. 285 ft. Double. . 64
Ward street, west side, 62 feet south of Bay. Post. 46
Washburn street, southeast corner of Acushnet avenue. 59
Washburn street, south side, west of North Front 228 feet. 59
Washington street, southeast corner of Crapo. 58
Washington street, south side, west of Orchard 102 feet. 50
Washington street, southeast corner of Dartmouth. 46
Water street, southwest corner of Hillman. 65
Water street, southwest corner of North. Post. 64

Water street, west side, south of North 258 feet. 63
Water street, northwest corner of Middle. Double. 62
Water street, southwest corner of Elm. 60
Water street, west side, north of Centre 46 feet. 50
Water street, west side, north of School 22 feet. 60
Water street, northwest corner of Walnut. 61
Water street, northeast corner of City wharf. 62
Water street, northwest corner of Coffin. 64
Water street, west side, head of Pine. Post. 67
Water street, west side, head of Leonard. Post. 62
Water street, northwest corner of Howland. 64
Water street, northwest corner of Grinnell. 63
Water street, northwest corner of Potomska. Post. 63
Water street, west side, 266 feet south of Potomska. Post. 63
Water street, northwest corner of Rivet. Post. 63
Water street, southwest corner of Blackmer. Post. 63
Water street, northwest corner of Delano. Post. 62
Water street, west side, head of Gifford. Post. 62
Water street, northwest corner of Cove. Post. 62
Water street, southwest corner of Cove. 61
Weld street, southwest corner of State. Post. 43
William street, southwest corner of Bethel. 51
William street, southeast corner of Acushnet avenue. 47
William street, southwest corner of Sixth. Post. 38
William street, southwest corner of Eighth. 26
Willis street, southeast corner of Pleasant. Post. 41
Willis street, southwest corner of State. 32
Willis street, southwest corner of County. Post. 26
Willis street, southwest corner of Cottage. Post. 19
Willis street, south side, west of Cedar 200 feet. 18
Wing street, southwest corner of Fourth. 57
Wing street, southwest corner of Sixth. Post. 57
Winsor street, south side, west of County 455½ feet. Post. 58
Winsor street, south side, 77½ feet east of Crapo. Post. 60

Number of flush hydrants,	207
Number of post hydrants,	270
Total number of hydrants,	477

Summary of Statistics.

REPORT OF 1890.

IN ACCORDANCE WITH SUGGESTIONS ADOPTED BY THE

NEW ENGLAND WATER WORKS ASSOCIATION.

New Bedford Water Works, Bristol County, Mass.

Population by census of 1890,

40,705

Date of construction,

1866 to 1869, inclusive.

By whom owned,

The property of the city of New Bedford.

Source of supply,

From a storing reservoir artificially formed by constructing a dam across the valley of the Acushnet river, seven miles north of the centre of the city.

Mode of supply,

By gravitation into the city, thence pumped into a distributing reservoir on an elevated site.

PUMPING.

1. Builders of pumping machinery,

a. McAlpine engine, built by Quintard Iron Works.

b. Worthington engine, built by Henry R. Worthington.

c. High duty Worthington engine, built by Henry R. Worthington.

2. Description of coal used,

First Contract.

a. Anthracite.
b. Not applicable.
c. Size, egg.
d. Brand, "Old Company's" Lehigh.
e. Price per gross ton delivered, $5.44.
f. Percentage of ash, $9\frac{6}{10}$.
g. Wood, price per cord, $4.00.

Second Contract.

a. Anthracite.
b. Not applicable.
c. Size, egg.
d. Brand, Philadelphia & Reading free white ash.
e. Price per gross ton delivered, $4.50.
f. Percentage of ash, $13\frac{2}{10}$.
g. Wood, price per cord, $4.00.

	McAlpine.	Worthington.	High Duty Worthington.
3. Coal consumed for the year, in pounds,	1,242,730	220,935	792,350
4. $\frac{\text{Lbs. of wood consumed in pounds}}{3}$ = coal	585	405	270
5. Total fuel consumed for the year, (3) + (4),	1,243,315	221,340	792,620
6. Total pumpage for the year, in gallons,	755,911,579	109,852,408	597,191,364
7. Av. static head against which pumps work,	125.2	124.8	125.0
8. Av. dynamic head against which pumps work,	134.5	126.0	127.4
9. *a.* Number of gallons pumped per pound of coal (3),	608	497	754

b. Number of gallons raised 100 feet per pound of coal for total coal (3),

818 626 960

10. Duty, in foot lbs. per 100 pounds of coal, using following formula, making no deductions for starting, banking fires, heating building, or anything else,

$$\text{Duty} = \frac{\text{Gallons pumped (6)} \times 8\tfrac{3}{4}\text{ (lbs.)} \times 100 \times \text{dynamic head (80)}}{\text{Total fuel consumed (5)}}$$

68,199,024 52,166,255 80,022,754

Cost of Pumping Figured on Pumping Station Expenses, viz.: $10,475.40.

11. Per million gallons raised against average dynamic head (8) into reservoir,

$7.12

12. Per million gallons raised one foot high (dynamic),

5.44 cents.

Cost of Pumping Figured on Total Maintenance (see Financial CC.), viz.: $73,601.31.

13. Per million gallons raised against average dynamic head (8) into reservoir,

$50.31

14. Per million gallons raised one foot high (dynamic),

38.42 cents.

FINANCIAL.

MAINTENANCE.

RECEIPTS.		EXPENDITURES.	
From consumers:			
A. Water rates, domestic,	$52,777.08	AA. Management and repairs,	$30,701.31
B. Water rates, manufacturing,	9,704.45	BB. Interest on bonds,	42,900.00
C. Net receipts from water,	$62,481.53	CC. Total maintenance for year,	$73,601.31
D. Miscellaneous (sales, etc.),	205.64	Bonds paid,	30,000.00
E. Total,	$62,687.17	DD. Balance to construction,	43,985.86
From public funds:			
J. General appropriation, water,	12,000.00		
General appropriation, debt,	72,900.00		
K. Gross receipts from all sources,	$147,587.17	KK. Total,	$147,587.17

RECEIPTS.			EXPENDITURES.		
R.	Balance from previous year,	$34,962.79	FF. Extension, mains,		$22,408.10
	Balance from maintenance,	43,985.86 $78,948.65	GG. Extension, services,		
S.	Bonds issued,	00.00	*a.* Services,	$5,713.91	
U.	Other sources (service private lines, meters, etc.),	5,423.47	*b.* Fountains, meters,	658.91	6,372.82
			HH. Special extensions,		11,465.67
V.	Total,	$84,372.12	II. Total construction for year,		40,246.59
			JJ. Balance,		44,125.53
			KK. Total,		$84,372.12

W.	Net cost of works to this date, ...	$1,436,910.06
X.	Bonded debt at this date, $620,000, trust fund $100,000=	720,000.00
Y.	Sinking fund, ...	1,941.06
Z.	Average rate of interest, ...	$5\frac{7}{10}$ per cent.

CONSUMPTION.

1. Estimated total population at date,
   41,500
2. Estimated population on lines of pipe at date,
   37,500
3. Estimated population supplied at date,
   35,740
4. Total number gallons consumed for year,
   1,485,143,213
5. Passed through domestic meters,
   9,088,313 gallons, or $0\frac{61}{100}$ per cent.
6. Passed through manufacturing meters,
   359,034,506 gallons, or 24 per cent.
7. Average daily consumption, in gallons,
   4,066,200
8. Gallons per day to each inhabitant (1),
   98
9. Gallons per day to each customer (3),
   114
10. Gallons per day to each tap (distribution 22),
    636

DISTRIBUTION.

MAINS.

1. Kind of pipe used,
   Wrought iron cement-lined, and cast iron.
2. Size,
   From 4 to 30 inches.
3. Extended,
   12,715
4. Discontinued,
   4,901
5. Total now in use,
   $62\frac{5411}{10000}$ miles.
6. Cost of repairs per mile,
   $17.87
7. Number of leaks for the year,
   9

8. Small distribution pipes, less than 4 inches, total length,
6,177 feet.

9. *a.* Fire hydrants added,
17

b. Watering-cart connections added,
0

10. *a.* Number of fire hydrants now in use,
477

b. Number watering-cart hydrants now in use,
37

11. Stop gates added,
26

12. Number now in use,
669

13. Small stop gates, less than 4 inches, total,
63

14. Number of blow-off gates,
69

15. Range of pressure at centre for day and night,
30 to 36 lbs.

SERVICES.

16. Kind of pipe used,
Lead and cast iron.

17. Size,
From ½ to 8 inches.

18. Extended,
9,560

19. Discontinued,
0

20. Total now in use,
$39\frac{11}{100}$ miles.

21. Service taps added,
290

22. Number now in use,
6,394

23. Average length of service laid during past year,
33 feet.

24. Average cost of service,

Gross, $19.70
Net, $1.50

25. Meters added,

3

26. Number now in use,

a. Domestic, 76
b. Manufacturing, 47

27. Motors and elevators discontinued,

1

28. Number now in use,

30

In Board of Aldermen,
January 8th, 1891.

Received, ordered printed in the City Documents, and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,
January 8, 1891.

Concurred.

WM. A. MACKIE,
Clerk.

1891 — CITY DOCUMENT No. 4.

Thirty-Ninth Annual Report

OF THE

TRUSTEES

OF THE

FREE PUBLIC LIBRARY

OF THE

CITY OF NEW BEDFORD,

MASS.

NEW BEDFORD:
MERCURY PUBLISHING COMPANY, PRINTERS TO THE CITY.
1891.

Officers of the Free Public Library

FOR THE YEAR 1891.

TRUSTEES.

Ex-Officio. Terms expire January, 1892.

CHARLES S. ASHLEY, Mayor of the City.
JOSEPH DAWSON, President of the Common Council.
HENRY C. HATHAWAY, Chairman of the Committee of the City Council on Public Instruction.

Elected by the City Council.

ISAAC B. TOMPKINS, JR.,	Term expires April, 1891.
MATTHEW C. JULIEN,	Term expires April, 1891.
LEONARD B. ELLIS,	Term expires April, 1892.
ARTHUR G. GRINNELL,	Term expires April, 1892.
GEORGE H. DUNBAR,	Term expires April, 1893.
GEORGE HOWLAND, JR.,	Term expires April, 1893.

PRESIDENT OF THE BOARD.
THE MAYOR.

CLERK.
GEORGE H. DUNBAR.

COMMITTEES.

On the Library—The Mayor, Messrs. Howland, Dawson, and Julien.
On the Building—Messrs. Tompkins, Hathaway, and Ellis.
On Binding and Blanks—Messrs. Dunbar and Grinnell.

SUPERINTENDENT OF THE LIBRARY.
GEORGE H. DUNBAR.

LIBRARIAN.
ROBERT C. INGRAHAM.

ASSISTANT LIBRARIAN.
WILLIAM L. R. GIFFORD.

ASSISTANTS.
JOSEPHINE A. MERRICK, M. E. BROWN,
SUSIE H. GAMMONS.

JANITOR.
YORICK W. AMES.

REPORT.

To the City Council of the City of New Bedford:

GENTLEMEN,—The trustees of the Free Public Library, in making their report for the past year, may assume your knowledge of the continued prosperity of the library, in its main features. Each year, however, brings changes to which it is important that your attention should be drawn. The statistics of the library, which accompany this report, indicate some of these changes, and suggest what is needed for its future prosperity. There are, however, a few matters of such importance as to make it expedient to mention them specifically, so that whatever other needs may be temporarily neglected, these, at least, may receive your immediate attention.

Foremost among these necessities is that of placing incandescent lights throughout the old part of the library. The arc lights which were put there before the present arrangements of shelving were made are now altogether inadequate for the purpose of enabling the attendants to find the books required. The spaces between the shelves are thrown by these lights into very deep shadow. We feel it to be imperative that a change be made at once so that this great fault may be remedied. The incandescent lights should be extended from the new part of the building throughout the old part.

For some years past, we have felt the need of furnishing a finding-list of subjects, that would be of practical use to the public. The preparation of such a list involves

considerable time and labor, even under the most favorable attending circumstances. But we take this opportunity of announcing that the work has been begun and is now in progress.

During the past year, the privileges of the library have been extended to all residents of New Bedford who have reached the age of fourteen years, instead of sixteen, as formerly. This change was made particularly for the sake of those attending the schools of the city; and we have every reason to think that the new privilege is appreciated and improved. Of necessity, the general use of the library and the circulation of books have increased. The reading-room also is much more extensively used than formerly by all classes of readers. Frequently in the afternoon it is taxed to its fullest capacity.

In compliance with the request of a number of persons that the reading-room be opened on Sundays, the trustees decided to make the experiment. The first Sunday opening was October 5, 1890. The average attendance for the last three months of 1890 was 29. So far as this is any indication, we cannot say yet that we regard the experiment as a very successful one.

As in former reports, we still find it necessary to request on the part of the public greater care in the handling of books. Our books do not suffer as much as they once did from pencil marks; but they are often badly mutilated by reason of careless usage.

In conclusion, we would add that there is ground for congratulation in the fact of the continued and increasing prosperity of the library and of the constantly growing use which our people are making of its advantages.

APPENDIX.

GENERAL STATISTICS FOR 1890.

Books and pamphlets purchased in 1890,	1,954
Volumes donated in 1890,	383
Pamphlets donated in 1890,	1,047
Newspapers now on file in the reading-room,	18
Volumes rebound and repaired,	658
" bound,	307
" worn out and rejected,	530
Notices sent for books overdue,	136
New cards issued,	1,007
Books taken from the library in 1890,	78,906
Increase in circulation over that of 1889,	3,581

The following table shows the attendance at the library on Sunday, since the rooms were first opened in October. The largest attendance was 51, Dec. 14; the smallest 18, Oct. 19; average attendance, 29.

Oct. 5.	30.
12.	30.
19.	18.
26.	22.
Nov. 2.	26.
9.	24.
16.	21.
23.	34.
30.	20.
Dec. 7.	40.
14.	51.
21.	26.
28.	36.

Average attendance, 29.

FINANCIAL STATEMENT CONCERNING THE FREE PUBLIC LIBRARY FOR 1890.

STATEMENT OF THE LIBRARIAN.

1890.			
Jan. 1.	Cash on hand,	$33.23	
	Paper stock,	2.14	
	Books lost and paid for,	1.75	
	42 fiction catalogues sold,	10.50	
	Bulletins sold,	.35	
	Fines during 1890,	168.95	$216.92
	Paid for expressage, freight, and jobbing,	$40.88	
	P. O. box and postage,	36.23	
	Books and papers,	4.05	
	Binding and paper cutting,	17.20	
	Stationery,	13.26	
	Services of extra janitor,	10.50	
	Incidentals,	48.21	
1891, Jan. 1.	Balance in hands of librarian,	46.59	$216.92

FREE PUBLIC LIBRARY ACCOUNT.

1890.	Bills approved January,	$483.88	
	February,	473.89	
	March,	502.61	
	April,	475.81	
	May,	475.86	
	June,	522.87	
	July,	517.35	
	August,	500.02	
	September,	501.17	
	October,	482.04	
	November,	463.48	
	December,	474.25	$5,873.23
1890, Jan. 1.	Annual appropriation,	$5,800.00	
	Transfer,	73.23	$5,873.23

TRUST FUND ACCOUNT.

1890.			
Jan. 1.	Sylvia Ann Howland fund,	$6,075.84	
	George Howland, Jr., fund,	88.53	
	Charles W. Morgan fund,	7.84	
	Oliver Crocker fund,	222.90	
	James B. Congdon fund,	350.37	
	George O. Crocker fund,	343.95	
	Dog fund,	173.82	$7,263.25

SYLVIA ANN HOWLAND FREE PUBLIC LIBRARY FUND.

1890.			
Jan. 1.	Unexpended balance of income,	$6,075.84	
July 1.	Six months' interest,	1,500.00	
Dec. 31.	Six months' interest,	1,500.00	$9,075.84

Bills approved for books, periodicals, and binding, viz.:

January audit,	$429.88	
February,	311.59	
March,	229.78	
April,	338.40	
May,	261.08	
June,	202.65	
July,	222.94	
August,	251.71	
September,	198.74	
October,	894.60	
November,	606.13	
December,	657.99	$4,605.49

The detailed statement of the expenditures from the income of this fund is as follows:

Academy of Natural Sciences,	$5.00
American Chemical Journal,	5.00
American Journal of Mathematics,	5.00
American Journal of Philology,	3.00
Annals of Hygiene,	6.00
Appleton, D., & Co.,	14.40
Babcock, Hope A.,	3.50
Bancroft-Whitney Co.,	24.00
Blanchard, F. S., & Co.,	5.00
Boston Public Library,	1.00
Boston Society of Natural History,	13.50
Brinton, D. G.,	3.00
British Record Society,	24.13
Bushell, W.,	10.79
Cadby, J. H. W.,	7.06
Clarke, W. B., & Co.,	140.93
Coöperative Newspaper Co.,	2.50
Crouse, F. M.,	6.75
Cushing, Wm.,	10.00
Davis, C. H. S.,	1.42
Davis, W. T.,	1.66
Dedham Historical Register,	1.00

Dews, Edwin,	$487.74
Egypt Exploration Fund,	6.25
Electrical World,	5.25
Ellis, G. H.,	2.00
Ellis, L. B.,	4.50
Essex Institute,	9.00
Fords, Howard & Hulbert,	5.00
Francis, D. G.,	28.43
Franklin Institute,	5.00
Garden & Forest Pub. Co.,	18.00
Haferkorn, H. E.,	.89
Harper, F. P.,	5.60
Harvard Monthly,	2.00
Hathaway, J. H., City Treasurer,	144.90
Heise & Haferkorn,	4.76
Hickcox, J. H.,	5.00
Houghton, Mifflin & Co.,	40.50
Hutchinson, H. S., & Co.,	498.55
Inman, H. S.,	60.00
Johns Hopkins Press,	1.00
Kane, D. J., & Bro.,	94.40
Lawrence, L. L., Treas.,	31.47
Lee, C. C.,	3.25
Lewis, J. W., & Co.,	3.00
Little, Brown & Co.,	882.04
Littlefield, G. E.,	223.95
McCook, H. C.,	20.00
Mass. Historical Society,	3.00
Mercury Pub. Co.,	12.00
Munn & Co.,	6.80
Munsell's Sons,	5.00
Nash, E. W.,	27.45
National Pub. and Printing Co.,	1.55
New England Pub. Co.,	2.50
Noyes, H. D., & Co.,	3.50
Oliver Ditson Co.,	16.70
Pairpoint, A. J.,	1.00
Peet, S. D.,	4.00
Phillips, G. R.,	3.00
Pierce, F. C.,	5.00
Polk, R. L., & Co.,	5.00
Poor, H. V. & H. W.,	6.00
Pratt, A. E.,	1.10
Publishers' Weekly, R. R. Bowker,	23.00
Rand, J. C.,	5.00
Redpath, J. V.,	8.00

Rider, S. S.,	$.50	
Roffe, A. H., & Co.,	236.45	
Sampson, Murdock & Co.,	10.00	
Schoenhof, C.	83.80	
Scribner's Sons,	144.00	
Smith, J. S., & Co.,	2.00	
Soldiers' and Sailors' Historical Society,	1.60	
Spalding, H. B.,	30.00	
Studies in Historical and Political Science,	7.00	
Taber, R. W.,	751.85	
Taylor, T. J.,	2.30	
Thorup, W. M.,	7.50	
Tilley, R. H.,	1.00	
Topham, W. B.,	1.00	
U. S. Patent Office,	62.40	
Wiley, J., & Sons,	16.80	
Yorston Bros.,	205.75	
Zahm, S. H., & Co.,	14.82	$4,605.49

GEORGE HOWLAND, JR., FUND.

1890.				
Jan. 1.	Unexpended balance of income,		$88.53	
	One year's interest,		96.00	
			$184.53	
	H. S. Inman,		50.00	$134.53

CHARLES W. MORGAN FUND.

1890.				
Jan. 1.	Unexpended balance of income,		$7.84	
	One year's interest,		60.00	
				$67.84

OLIVER CROCKER FUND.

1890.				
Jan. 1.	Unexpended balance of income,		$222.90	
	One year's interest,		60.00	
			$282.90	
	Academy of Nat. Sciences,	$40.00		
	American Polytechnic Co.,	50.00	90.00	$192.90

GEORGE O. CROCKER FUND.

1890.				
Jan. 1.	Unexpended balance of income,		$343.95	
	One year's interest,		400.00	
			$743.95	
	W. M. Belcher & Co.,	$160.00		
	Library Bureau,	71.00	231.00	$512.95

JAMES B. CONGDON FUND.

1890.				
Jan. 1.	Unexpended balance of income,		$350.37	
	One year's interest,		30.00	$380.37

DOG FUND.

1890.				
Jan. 1.	Unexpended balance of income,		$173.82	
Feb.	Received from County Treasurer,		1,268.55	
			$1,442.37	
	Y. W. Ames,	$566.00		
	D. J. McAuliffe,	26.00		
	L. M. Gammons,	19.50		
	Briggs & Lawrence,	29.00		
	W. L. R. Gifford,	32.00		
	E. Anthony & Sons,	44.38		
	Mercury Pub. Co.,	20.46		
	H. S. Hutchinson & Co.,	5.00		
	J. T. Almy,	49.00		
	L. B. Ellis,	8.66		
	A. P. Pope,	11.47	811.47	$630.90

Total unexpended balance in the control of the Board of Trustees:

1891.			
Jan. 1.	Sylvia Ann Howland fund,	$4,470.35	
	George Howland, Jr., fund,	134.53	
	Charles W. Morgan fund,	67.84	
	Oliver Crocker fund,	192.90	
	George O. Crocker fund,	512.95	
	James B. Congdon fund,	380.37	
	Dog fund,	630.90	$6,389.84

GEORGE H. DUNBAR, Clerk.

GIFTS, 1891.

	Volumes.	Pamphlets.
Amer. Unitarian Association,	3	1
Ames, John G., Washington, D. C.,		1
Amherst College, Amherst, Mass.,		3
Anthony, E., & Sons,		106
Apprentices Library Co., Phila.,		1
Arber, E., London,	1	
Astor Library, New York,		1
Bancroft-Whitney Co., San Francisco, Cal.,	1	
Bell, W. S., San Francisco,	1	
Biolley, Paul,	2	
Boston & Maine Rail Road,	2	
Boston Public Library,		2
Bourne, George A.,	1	
Bridgeport Public Library, Conn.,		2
Bristol Co. Agric. Society, Taunton,		1
Brock, J. C.,		1
Brookline Public Library,		1
Brooklyn Library,		2
Brown, Jos. M., Atlanta, Ga.,		1
Brownell, T. F., New York City,		6
Buckminster, Joseph,	4	
Buffalo Library, Buffalo, N. Y.,		1
Butler Hospital for the Insane, Providence,		1
Chase, Warren E.,	8 nos.	
Chicago Public Library,		12
Choate, John C., Essex, Mass.,		1
Cincinnati Public Library,		6
Citizens Association of Boston, 89 State street,		2
City of New Bedford,		4
City of Boston,	2	1
Clarke Inst. for Deaf Mutes, Northampton, Mass.,		1
Cleveland Public Library,		1
Clifford, Walter,		5
Coggeshall, R. C. P., ... Framed lithograph.		
Commissioners of the State Reservation at Niagara, N. Y., H. E. Gregory, Sec., 214 Broadway, N. Y.,		1

Commonwealth of Mass., Secretary of Commonwealth, Boston,		2
Cooke, J. P., Boston,		1
Cooper Union, New York,		1
Cornell University, Ithaca, N. Y.,		1
Crapo, William W.,	13	
Cunningham, H. W., 31 St. James avenue, Boston,		2
Cutter, Abraham E., 41 Monument square, Boston,		1
Cutter, C. A., Boston,		1
Davenport, Cyrus B., Brooklyn,		1
Delano, Joseph C., Heirs of,	38	
Denison Board of Trade, Denison, Texas,		1
Dennison, T. R.,		1
Dep't of Public Parks, New York,		1
Detroit Public Library,		1
Dexter, Franklin B., New Haven,	1	1
Egypt Exploration Fund, Rev. W. C. Winslow, 525 Beacon street, Boston,		1
Ellis, G. A., 90 Chancery Lane, London, W. C.,	1	
Emery, Edwin,		1
Emery, William M.,		1
Engineering News Pub. Co., New York,	1	
Fall River Public Library,		1
Farrington, William H., 23 Murray street, New York,	34	67
Fearing, A. C., Jr., 13 Doane street, Boston,	2	
Fletcher Free Library, Burlington, Vt.,		1
Franklin Institute, Phila.,		1
Friends Free Library, Germantown, Pa.,		1
Gifford, W. L. R., ... Papers.		1
Grand Rapids (Mich.) Board of Trade,		1
Green, Samuel A., Boston,	15	357
Griffis, William E., Boston, 638 Tremont street,	1	
Hallowell, R. P.,		2
Hartford Library Association,		6
Hartford Theological Seminary,		3
Harvard University, Cambridge,	1	4
Haskell, S. B., Portland, Maine,		11
Hawes, A. C.,		1
Historical Society of Penn.,	1	
Hopedale Public Library,		1
Howland, Geo., Jr.,		83
Howland, *Mrs.* Rachel S.,	5	
Huddleston, J. H., Boston, 1451 Tremont street,		3
Ingersoll, Edward, Philadelphia, 208 South 5th street,	1	
Jenney, Charles F., Hyde Park, Mass.,	2	30

Johns Hopkins University,		2
Kempton, David B.,		2
Lacey, E. S., Washington, D. C.,	1	
Lancaster Library, Lancaster, Mass.,		1
Lang, Henry R.,		1
Larremore, Wilbur, 32 Nassau street, N. Y.,	1	
Lawrence Public Library,		4
Lawton, William C., Cambridge,		1
Lee, Leslie A., Brunswick, Me.,		1
Leigh, C. C., 4 Willow street, Brooklyn, N. Y.,		1
Lenox Library, N. Y.,		1
Library Bureau, Boston,	1	1
Littlefield, G. E., Cornhill, Boston,		1
Los Angeles Public Library,		1
Lynn Public Library,		1
McCollin, T. H., & Co., Phila.,	4	
McKnight, David A., New York,	1	
McLaughlin, J. W., Austin, Texas,		1
McLean, George P., Simsbury, Conn.,		1
Maimonides Library, New York,		1
Mass. Civil Service Commissioners, Boston,		1
Massachusetts Club, Boston,		1
Mass. Society of the Cincinnati, 50 State st., Boston,	1	
Mercantile Library Association, New York,		2
Mercantile Library Association, San Francisco,		1
Merrill, Edward B., New York City,	23	88
Minneapolis Industrial Exposition, W. M. Regan, Sec.		2
Minneapolis Public Library,		7
Monroe, F. S.,	3	
Newberry Library, Chicago,		1
New Haven Free Pub. Library,		2
New Jersey State Library, Newark, N. J.,		1
Newton Free Library,		1
New York Free Circulating Library,		1
N. Y. Tribune Assoc.,		3
Northampton Lunatic Hospital,		2
O'Hanlon, *Very Rev.* John, Dublin,	1	
Ohio Meteorological Bureau, Columbus, Ohio,		8
Old Colony Historical Society,		3
Parker, Wm. C.,		2
Peabody Institute, Peabody, Mass.,		2
Peoria Public Library,		1
Perkins Institute for the Blind, Boston,		1
Philadelphia Library Co.,		1
Portland Public Library,		2
Pratt Institute, Brooklyn,		1

Prescott, *Mrs.* Helen H.,	12	1
Providence Public Library,		1
Randall, Chas. S.,	25	
Raymond, E. P.,	9	
Redwood Library, Newport, R. I.,		1
Reuben Hoar Library, Littleton, Mass.,	1	
Rodman, Edmund,		1
Rodman, Thos. R,	1	11
Romero, *Señor* Don Matias, Washington, D. C.,		1
Rosse, Irving C., Washington, D. C.,		1
Royal Society of Canada,	1	
Rusk, J. M., Washington, D. C.,	1	1
Russell, Martha,	8	1
St. Louis Public Library,		1
St. Mary's Hospital Medical School London,		1
Salem Public Library,		4
San Francisco Free Public Library,		1
Smithsonian Inst., Washington, D. C.,	8	6
Southern Pacific R. R. Co.,		1
Springfield City Library,		12
Stoddard, Lyman H.,	3	
Swain Free School,		1
Taunton Public Library,		1
Thompson, Jas. D.,	3	
Toledo Public Library,		1
Tucker, Geo. F.,	2	
Tyler, Chas. E.,	1	4
University of California, Berkeley, Cal.,		1
United States:		
— Agricultural Department,		12
— Bureau of Education,	1	9
— Coast Survey,		5
— Interior Dept.,	93	
— Navy Dept.,		1
— State Dept.,	2	20
— Treasury Dept.,	3	1
— War Dept.,	6	
United States Hotel, Boston,		3
Veazey, Wheelock G., Washington, D. C.,	1	
Ver-Planck, *Mrs.* J. C., Wayne P. O., Del. Co., Pa.,	1	
Washburn, Wm. T.,	1	
Washingtonian Home, Boston,		1
Waterhouse, Sylvester, St. Louis, Mo.,		8
Waterhouse Public Library,		1
Willey, H.,	8	4
Williams, Henry M., Boston, 39 Court st.,		2

Wilmington Institute, Wilmington, Del.,		1
Woburn Public Library,		1
Woodruff, Wilford, Salt Lake City,	1	
Worcester Public Library,	1	1
Yale University, New Haven, Conn.,		3

In Board of Aldermen,
May 28, 1891.

Received, ordered printed in the City Documents, and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,
May 28, 1891.

Concurred.

WM. A. MACKIE,
Clerk.

1891 — CITY DOCUMENT No. 5.

ANNUAL REPORT

OF THE

CHIEF ENGINEER

OF THE

FIRE DEPARTMENT

OF THE CITY OF NEW BEDFORD,

FOR THE YEAR ENDING DECEMBER 31, 1890.

FREDERICK MACY, CHIEF ENGINEER.

NEW BEDFORD:
MERCURY PUBLISHING COMPANY, PRINTERS TO THE CITY.
1891.

COMMITTEE OF THE CITY COUNCIL

ON

FIRE DEPARTMENT,

1890.

Aldermen,

JAMES DELANO,

Residence, corner Anthony and Grove streets.

STEPHEN A. BROWNELL,

Residence, 91 Court street.

Councilmen,

HENRY C. JENNEY,

Residence, 31 Sycamore street.

PETER F. SULLIVAN,

Residence, corner County and Penniman streets.

WILLIAM A. CHURCH,

Residence, 15 Lincoln street.

Engineers' Department.

Chief Engineer,
FREDERICK MACY,
Residence, 234 Acushnet avenue.

First Assistant Engineer,
LORING T. PARLOW,
Residence, 5 North street.

Second Assistant Engineer,
PLINY B. SHERMAN,
Residence, 433 Acushnet avenue.

Third Assistant Engineer,
AUGUSTUS A. WOOD,
Residence, 46 Hill street.

Fourth Assistant Engineer,
HUGH McDONALD,
Residence, 113 Second street.

Clerk of Board of Engineers,
LUTHER G. HEWINS, Jr.,
Residence, 762 County street.

Master Mechanic,
DANIEL D. BRIGGS,
Residence, 43 Bedford street.

Department Engineer,
GEORGE H. PARKER,
Residence, Parker street.

Department Driver,
SQUIRE A. GIFFORD,
Residence, 72 Walden street.

REPORT.

HEADQUARTERS FIRE DEPARTMENT,
CITY HALL, NEW BEDFORD,
DECEMBER 31st, 1890.

GENTLEMEN: — In compliance with the requirements of the city ordinance governing the Fire Department of the city, I herewith submit to you my fourteenth annual Report of the condition and work performed by this department for the year 1890, together with a list of members, with their rank, number of badge, age, residence, and occupation; location of hydrants and fire alarm boxes; list of key holders; a statement of receipts and expenses; fires and alarms; losses and insurance as near as could be ascertained; and such suggestions as I think will be necessary for the good of the department.

Again I have the pleasure of reporting to your honorable body a very fortunate year as regards losses by fire, for although the calls on the department have been more numerous than ever before, we have been extremely fortunate in having quick alarms, and the promptness with which the department has responded has many times prevented what, under other circumstances, would have been serious fires.

The most disastrous fire we had during the year was on March 8th, when the Trinitarian church on Fourth street took fire from the furnace and extended to the roof

before the alarm was given; and although we saved the building, it had been on fire so many times before, it was decided to tear it down and build a more modern structure.

The department is in most excellent condition and the members have performed their duties in a creditable manner.

On the evening of January 25th, at an alarm from box 56, the department extinguished a fire on the premises of Philias Roy, furniture dealer, 883 South Water street. It was such a very suspicious fire that I called for an investigation before the Third District Court and summoned Roy as a witness, but he left the city that night and has never returned, and the insurance has not been paid. I am satisfied that the investigation had a good effect, for we have had very few suspicious fires since.

An alarm from box 17, on the evening of April 20th, called the department to the tenement house No. 520 Acushnet avenue, where they found that Catherine Leary was so badly burned that she died the next day.

On February 24th, George B. Russell, who for sixteen years had been engineer of Progress Engine No. 2, died after a long and lingering sickness. He was buried at the Rural Cemetery on the 27th, his funeral being attended by the whole department.

One of the saddest events to the department occurred on the evening of October 14th, when, at a fire at a tenement house, No. 107 Cedar street, Hoseman Edward C. Spooner of Engine No. 2, in endeavoring to rescue Mrs. Susan, wife of William L. Cobb, was severely burned about the head and hands, and although everything that medical skill and kind friends could do for him was done, he died on the morning of November 1st. His funeral from the County Street M. E. church, which occurred on the 4th, was attended by the entire department and a large number of citizens. The interment took place at his family lot in Pine Grove Cemetery at Acushnet.

Mr. Spooner was one of the oldest members of the department, having been connected with it over thirty years. He was a good fireman and never known to shirk any duty, however hazardous. He was of a genial disposition and was held in the highest esteem by every member of the department.

Mrs. Cobb died in a few hours after being rescued by Mr. Spooner.

The Number Seven engine house has been completed and equipped in first class style and is a great protection to the northwest section of the city and gives us one more engine to call upon in any emergency. Our city is extending so fast to the north, south, and west that it is necessary to do what we can to protect the property, and I would earnestly recommend the purchase of an aerial ladder truck for the south end, as there are too many lives and too much property at risk to depend upon a truck coming from the centre of the city. When the Number Six engine house was built in 1882 it was planned to accommodate a truck when the time came for the necessity of one, so that all the expense will be for a truck, horses, harnesses, and for furnishing rooms for men.

FORCE OF THE DEPARTMENT.

The force of the department consists of one chief, four assistant engineers and clerk, twenty permanent men and one hundred sixty-nine call members, making a total of one hundred ninety-five men.

APPARATUS.

The apparatus consists of seven steam fire engines, six in commission and one in reserve, one hand engine at the Head of the River, one two-wheeled and five four-wheeled horse hose carriages, two hose wagons, one Hayes aerial

ladder truck, one Ryan truck in commission and one old truck in reserve, seven exercise and coal wagons, and one telegraph wagon, all in very good repair. The Number Five, Clapp & Jones, has been in the shop and had an entire set of new tubes and a general overhauling, and she ought to go many years without any extra outlay.

HOUSES.

There are seven brick and one wooden engine houses, most of them in good repair. It will be necessary to grade the lot and build fences and a shed at the house of Number Seven. We have had a special appropriation for the alteration of the Number Five house for two years but owing to the opposition of one of the neighbors, who was a member of the city council, nothing has been done, but I trust the incoming city government will take the matter in hand and make this house what it should be. The old school house at the Head of the River has been turned over to this department and made over into an engine house, making very nice quarters for Number Nine. The coal and wagon sheds in the rear of the repair shop on Bedford street are in very poor condition and I would recommend tearing them down and extending the repair shop to the north, as we are very much crowded for room.

HORSES.

There are twenty-eight horses belonging to the department and with a few exceptions are in very good condition. It will be necessary to exchange two or three old ones for something younger and better suited to the service.

HARNESSES.

There are nine sets of double harnesses and ten single harnesses, all in good condition.

HOSE.

There are eleven thousand five hundred feet of cotton rubber lined hose in the department, most of it in good condition, but some of it is twelve and thirteen years old and must be condemned. I would recommend the purchase of one or two thousand feet the coming year.

WATER SUPPLY.

The number of hydrants January 1st, 1890, was four hundred sixty (460); added during the year, seventeen (17), making a total of four hundred seventy-seven (477). There are thirty (30) reservoirs; one has been filled up during the year and there are three others which will have to be soon, as they are small and of very little account. We have had a good water supply on all occasions, but I would recommend to the Water Board that there be a larger main placed in Prospect street from Howland to Grinnell street to protect the Pairpoint and Mt. Washington Glass Works, as well as the City Manufacturing Company's property, for in case of a fire occurring on the premises of these corporations it would be impóssible to put all of our engines at work to good advantage, as some of them would have to use very long lines.

FIRE ALARM.

There has been considerable work done in this department during the year, our lines having been changed in many instances from buildings to poles and carried up above all other wires. There has been about ten miles of new wire run to replace the old and it will be necessary to run about ten miles more the coming year, when the whole system will be about as near perfect as possible. There has been added a testing machine which notifies us imme-

diately of any trouble on the lines. There have been no boxes added during the year, but there should be a few the coming year. We have now sixty-one (61) fire alarm boxes, thirty-five (35) miles of wire, nine (9) bell strikers, eight (8) fifteen-inch engine house gongs, seven (7) seven-inch engineers' gongs, and three (3) small tappers, operated by a battery of two hundred ten (210) cups.

PROTECTIVE DEPARTMENT.

There has been very little work for this department during the year but the members have been prompt in responding to all alarms and have been ready and willing to do all in their power to save property.

RECEIPTS AND EXPENDITURES.

Appropriation for 1890,		$35,500.00
Cash received and paid to the City Treasurer as follows:		
For pumping,	$88.05	
Sale of horses,	100.00	
Sale of manure (City Farm),	279.04	
Sale of old material,	5.00	
Overpaid and returned,	48.02	
Labor,	5.00	525.11
Transfer to balance account,		2,985.83
		$39,010.94
Expenditures,		$39,010.94

CONCLUSION.

To His Honor the Mayor and gentlemen of the City Council, for the interest taken in this department, to the Board of Engineers, for their hearty support, and to the officers and members of the department, for the faithful manner in which they have performed all their duties, I return my most sincere thanks.

FREDERICK MACY,
Chief of Fire Department.

STATEMENT OF EXPENDITURES.

STATEMENT No. 1.

EXPENDITURES OF THE BOARD OF ENGINEERS FOR THE YEAR 1890.

Pay-roll,	$1,920.08	
Printing,	5.00	$1,925.08

STATEMENT No. 2.

EXPENDITURES OF THE NEW BEDFORD PROTECTING SOCIETY FOR THE YEAR 1890.

Pay-rolls,	$150.00	
Horse hire,	24.00	$174.00

STATEMENT No. 3.

EXPENDITURES OF THE FIRE ALARM FOR THE YEAR 1890.

Pay of Assistant Superintendent,	$600.00	
Wire,	125.93	
Copper,	113.92	
Vitriol,	73.36	
Brass,	4.72	
Discs,	7.94	
Grain,	77.28	
Hay,	19.32	
Labor,	149.21	
Freight,	1.60	
Testing machine,	350.00	
Supplies and incidentals,	88.48	$1,611.76

STATEMENT No. 4.

RUNNING EXPENSES OF THE COMPANIES FOR THE YEAR 1890.

Company pay-rolls,	$8,468.66	
Permanent men's pay-rolls,	16,021.60	
Hay and straw,	1,828.57	
Grain,	988.42	
Shoeing and blacksmithing,	373.79	
Harnesses and repairs,	346.88	
Wood and coal,	555.84	
Gas,	105.71	
Electric lights,	541.58	
Engine and wagon repairs,	888.26	
Incidentals,	46.49	$30,165.80

STATEMENT No. 5.

REPAIRS OF BUILDINGS FOR THE YEAR 1890.

Weld street engine house,	$36.02	
Onward, No. 1, engine house,	43.40	
Central engine house,	44.49	
C. Howland, No. 4, engine house,	47.49	
Z. Hillman, No. 5, engine house,	29.18	
F. Macy, No. 6, engine house,	97.95	
Hancock, No. 9, engine house,	35.48	$334.01

STATEMENT No. 6.

INCIDENTAL AND SUPPLY ACCOUNT FOR 1890.

Horse hire,	$522.00	
New hose and repairs,	708.60	
Telephones,	374.19	
Horses,	875.00	
Labor,	50.01	
Veterinary,	108.50	
Medicines,	111.31	
Transportation,	80.00	
Freight and carting,	63.18	
Express,	1.90	
Printing and advertising,	60.25	
Rents,	85.00	
Wagon,	100.00	
Firemen's day,	399.25	
Sundries,	1,261.10	$4,800.29

STATEMENT No. 7.

TOTAL EXPENDITURES OF THE FIRE DEPARTMENT FOR THE YEAR 1890.

Expenditures Board of Engineers, Statement No. 1,	$1,925.08
" N. B. Protecting Society, Statement No. 2,	174.00
" Fire Alarm, Statement No. 3,	1,611.76
Running expenses, Statement No. 4,	30,165.80
Repairs on Buildings, Statement No. 5,	334.01
Incidentals and supplies, Statement No. 6,	4,800.29
	$39,010.94

ONWARD STEAM FIRE ENGINE CO., No. 1.

House on Purchase street, foot of Franklin street. Engine built by Amoskeag Manufacturing Co., Manchester, N. H.; capacity 500 gallons per minute; weight of engine, as drawn to fires, 6950 lbs.; weight of hose carriage, with 1050 feet of Boyd's cotton hose, 2850 lbs.; put into service August 26, 1869. Company organized January 1, 1870.

Date of Joining.	No. of Badge	Name.	Rank.	Age.	Residence.	Occupation.
Apr. 29, 1873.	8	Allen W. Tinkham.	Captain.	36	30 County av.	Carpenter.
June 28, 1876.	17	Geo. A. Tripp.	1st Lieut.	34	63 Foster st.	Shoemaker.
May 31, 1880.	24	Chas. A. Wilson.	2d Lieut.	34	130 Chestnut st.	Carpenter.
Dec. 30, 1871.	9	E. C. Milliken.	Clerk.	47	193 Pleasant st.	Baker.
Apr. 24, 1882.	6	Edward M. Durfee.	Hoseman.	46	488 Acushnet av.	Blacksmith.
Jan. 28, 1873.	7	Julian A. Sweet.	"	42	134 State st.	Roll coverer.
May 7, 1883.	11	Fred.W. Brightman.	"	32	72 Kempton st.	Paint manuf.
Dec. 29, 1882.	19	John Whitehead.	"	47	580 Purchase st.	Frame maker.
Aug. 31, 1885.	10	Wm. O. Brightman.	"	38	83 Austin st.	Paint manuf.
Apr. 29, 1889.	18	Roland A. Hatch.	"	23	48 High st.	Shoemaker.
May 5, 1890.	16	Oscar S. Hammond.	"	22	70 North st.	Carpenter.
July 28, 1890.	15	Chas. H. Thomas.	"	33	87 Locust st.	Machinist.
Sept. 1, 1885.	13	John T. Aghen.	Substitute.	27	6 Willis st.	Clerk.
Apr. 29, 1889.	12	Albert D. Milliken.	"	20	193 Pleasant st.	Clerk.
Mar. 7, 1884.	20	Fred. Wood.	Engineer.	30	Engine house.	Engineer.
Apr. 1, 1884.	22	Harris N. Tinkham.	Stoker.	32	94 Parker st.	Blacksmith.
Dec. 30, 1871.	21	Jas. L. Bryant.	Driver.	52	Engine house.	Hostler.
Apr. 10, 1885.	23	Isaac Dawson.	Reel driver	25	10 Austin st.	Driver.

PROGRESS STEAM FIRE ENGINE CO., No. 2.

House corner Purchase street and Mechanics lane. Engine built by the Amoskeag Manufacturing Co., Manchester, N. H.; capacity 500 gallons per minute; weight of engine as drawn to fires, 7000 lbs.; weight of hose carriage, with 1050 feet Boyd's cotton hose, 2850 lbs.; put in commission November 6, 1884. Company organized October 27, 1860.

Date of Joining.	No. of Badge	Name.	Rank.	Age.	Residence.	Occupation.
Oct. 7, 1878.	30	Geo. M. Crapo.	Captain.	40	48 No. Second st.	Frame maker.
Nov. 1, 1862.	25	John Downey.	1st Lieut.	53	77 No. Second st.	Teamer.
Sept. 7, 1874.	32	Chas. F. Dean.	2d Lieut.	35	59 Elm st.	Carriage painter.
Aug. 7, 1874.	27	Jas. D. Allen.	Clerk.	54	202 Purchase st.	Clerk.
Jan. 1, 1872.	29	Jas. G. Harding.	Hoseman.	56	66 State st.	Carpenter.
June 6, 1876.	26	Eugene R. Leveret.	"	37	188 Middle st.	Clerk.
July 3, 1876.	34	Moses Dean.	"	36	202 Purchase st.	Blacksmith.
May 5, 1884.	36	Samuel W. Mitchell	"	32	155 Purchase st.	Clerk.
May 5, 1885.	35	Wm. K. Wagner.	"	34	208 Purchase st.	Telephone inspector.
Jan. 21, 1886.	37	E. K. Pierce.	"	29	19 Mill st.	Shoemaker.
Oct. 6, 1890.	33	Alex. J. Aiken.	"	22	76 No. Second st.	Painter.
Dec. 1, 1890.	24	Joseph Crowley.	"	21	98 No. Water st.	Plumber.
Oct. 6, 1890.	31	Wm. L. Edwards.	Substitute.	22	62 North st.	Clerk.
Dec. 1, 1890.	28	Henry A. Sherman.	"	35		
1890.	38	Albert W. Taber.	Engineer.	55	Engine house.	Engineer.
May 1, 1871.	39	Wm. P. Sowle.	Driver.	57	303 Acushnet av.	Hostler.
July 16, 1876.	41	Michael Conway.	Reel driver	52	8 Walnut st.	Hostler.
Aug. 20, 1874.	40	Lemuel W. Hayes.	Stoker.	47	18 Hillman st.	Wood turner.

CORNELIUS HOWLAND STEAM FIRE ENGINE CO., No. 4.

House corner Sixth and Bedford streets. Engine built by the Amoskeag Manufacturing Co., Manchester, N. H.; capacity 500 gallons per minute; weight of engine, as drawn to fires, 7000 lbs.; weight of hose carriage, with 1050 feet Boyd's cotton hose, 2850 lbs.; put into service May 20, 1884. Company organized February 1, 1867.

Date of Joining.	No. of Badge.	Name.	Rank.	Age.	Residence.	Occupation.
Aug. 31, 1885.	48	James J. Donaghy.	Captain.	26	91 Washington st	Britannia worker.
Dec. 6, 1877.	47	Charles H. Card.	1st Lieut.	43	73 Forest st.	Painter.
July 26, 1886.	43	Wm. E. Watson, Jr.	2d Lieut.	27	37 Fifth st.	Clerk.
Mar. 29, 1868.	50	Wm. A. Gibbs.	Clerk.	40	73 Forest st.	Cabinet maker
June 29, 1867.	46	James M. Tripp.	Hoseman.	55	211 Acushnet av.	Carpenter.
Nov. 10, 1879.	53	Benj. F. Hinckley.	"	33	22 Madison st.	Printer.
Dec. 10, 1877.	42	Edgar S. Gilbert.	"	43	48 Walnut st.	Merchant.
Sept. 29, 1872.	44	Charles S. Wing.	"	36	199 So. Second st.	Grocer.
Aug. 29, 1887.	52	Henry J. Marshall.	"	26	63 School st.	Blacksmith.
Feb. 16, 1888.	49	Frank C. Jennings.	"	24	19 Allen st.	Clerk.
Mar. 25, 1889.	45	Leander Reed.	"	42	3 Bay st.	Machinist.
Apr. 1, 1889.	51	John W. Donaghy.	"	24	103 Acushnet av.	Marble worker.
May 26, 1890.	54	Edwin F. Tripp.	Substitute.	21	211 Acushnet av.	Expressman.
Aug. 28, 1882.	55	Samuel Watson, 2d.	"	32	173 Fourth st.	Grocer.
Aug. 29, 1878.	56	Alonzo V. Jason.	Engineer.	36	Engine house.	Machinist.
Jan. 29, 1867.	57	Geo. H. W. Tripp.	Driver.	55	"	Hostler.
Apr. 1, 1889.	59	Wm. C. Kennedy.	Reel driver	24	100 Bedford st.	Clerk.
Jan. 27, 1873.	58	John H. Backus.	Stoker.	39	7 West Rivet st.	Blacksmith.

ZACHARIAH HILLMAN STEAM FIRE ENGINE CO., No. 5.

House corner of County and Hillman streets. Engine built by Messrs. Clapp & Jones, Hudson, N. Y., capacity 500 gallons per minute; weight of engine, as drawn to fires, 7250 lbs.; weight of hose carriage with 1050 feet Boyd's cotton hose, 2850 lbs.; put into service May 20, 1884.

Date of Joining.	No. of Badge	Name.	Rank.	Age.	Residence.	Occupation.
Jan. 29, 1883.	60	Charles C. Gifford.	Captain.	45	151 North st.	Carpenter.
May 5, 1884.	67	George H. Cook.	1st Lieut.	29	14 Spruce st.	Clerk.
Dec. 31, 1888.	70	Thomas H. Forbes.	2d Lieut.	29	121 Cedar st.	Shoemaker.
Oct. 1, 1885.	63	Joseph C. Forbes.	Clerk.	24	201 Cedar st.	Shoemaker.
May 1, 1876.	64	Geo. H. Chadwick.	Hoseman.	57	154 Kempton st.	Painter.
Dec. 13, 1873.	62	Isaiah H. Wilcox.	"	55	506 Acushnet av.	Painter.
May 23, 1886.	61	Henry C. Stubbs.	"	38	638 County st.	Painter.
July 27, 1885.	65	John F. Gifford.	"	36	169 Kempton st.	Foreman St. Department.
Sept. 30, 1889.	71	Obed S. Cowing.	"	27	32 North st.	Carpet upholsterer.
Oct. 30, 1889.	69	Wm. H. Knowles.	"	31	154 North st.	Grocer.
Sept. 30, 1890.	68	Thomas N. Myers.	"	29	205 Summer st.	Frame maker.
Oct. 27, 1890.	66	Edward N. Bennett.	"	30	137 Summer st.	Clerk.
Feb. 23, 1885.	73	Arthur W. Forbes.	Substitute.	22	151 North st.	Clerk.
June 7, 1888.	72	Henry K. Jones.	"	22	65 Chestnut st.	Machinist.
Dec. 13, 1873.	74	Martin Blanchard, Jr	Engineer.	46	Engine house.	Engineer.
Jan. 7, 1874.	75	Benj. F. King, Jr.	Driver.	51	"	Hostler.
Jan. 29, 1883.	77	Martin S. Nelson.	Reel driver	34	60 Thomas st.	Edison Light Co.
May 1, 1882.	76	Charles W. Jones.	Stoker.	32	329 Cottage st.	Wood turner.

FREDERICK MACY STEAM FIRE ENGINE CO., No. 6.

House on Fourth street, head of Potomska street. Engine built by Amoskeag Manufacturing Co., Manchester, N. H.; capacity 500 gallons per minute; weight of engine as drawn to fires, 7100 lbs.; weight of hose carriage with 1050 feet Boyd's cotton hose, 2850 lbs.; put into service November 1, 1882. Company organized October 31, 1882.

Date of Joining.	No. of Badge	Name.	Rank.	Age.	Residence.	Occupation.
Oct. 31, 1882.	121	George W. Parker.	Captain.	39	135 Washington st	Book-keeper.
Oct. 26, 1886.	130	Edward W. O'Neil.	1st Lieut.	29	30 Thompson st.	Glass cutter.
May 8, 1884.	126	Robert N. Allen.	2d Lieut.	46	26 Thompson st.	Painter.
Oct. 31, 1882.	122	Herbert B. Gardner.	Clerk.	44	114 Washington st.	Compositor.
Oct. 31, 1882.	127	Thomas Wood.	Hoseman.	44	34 Bonney st.	Photographer.
Oct. 31, 1882.	125	Marshall S. Greene.	"	36	Rivet st. near Crapo.	Mason.
May 27, 1883.	128	Joseph Jackson,	"	35	59 Allen st.	Barber.
Oct. 31, 1882.	132	Jason L. Ballou.	"	45	37 Crapo st.	Carpenter.
Oct. 31, 1882.	133	Charles K. Wood.	"	39	87 Acushnet av.	Passepartout maker.
Nov. 24, 1885.	123	Henry M. Mosher.	"	52	205 County st.	Fresco worker.
Oct. 31, 1882.	135	Frederick S. Nelson.	"	24	200 So. Second st.	Mason.
Jan. 1, 1888.	138	Walter Almond.	"	28	3 Hall st.	Turner.
Feb. 3, 1890.	131	Charles E. Allen.	Substitute.	22	23 Blackmer st.	Painter.
Dec. 24, 1890.	121	James T. Galligan.	"	24	Cor. Potomska and Fourth sts.	Clerk.
Oct. 31, 1882.	137	Charles G. Taber.	Engineer.	42	224 County st.	Engineer.
Nov. 10, 1886.	142	Benjamin C. Groves.	Stoker.	34	Acushnet av.	Machinist.
Oct. 31, 1882.	134	Frank A. C. Greene.	Engine driver.	25	87 Acushnet av.	Driver.
Oct. 31, 1882.	136	N. Herbert Greene.	Reel driver	34	Acushnet av., cor. Potomska.	Clerk.

STEAM FIRE ENGINE CO., No. 7.

House on Durfee street. Engine built by Amoskeag Manufacturing Co., Manchester, N. H.; capacity 500 gallons per minute; weight of engine, as drawn to fires, 7000 lbs. Put into service September 1, 1890. Company organized September 1, 1890.

Date of Joining.	No. of Badge	Name.	Rank.	Age.	Residence.	Occupation.
Sept. 1, 1890.	195	Samuel C. France.	Captain.	30	152 Mt. Pleasant street.	Salesman.
"	196	James Slater.	1st Lieut.	40	680 Purchase st.	Merchant.
"	197	Stephen C. Lowe.	2d Lieut.	33	39 Sycamore st.	Merchant.
"	198	Thomas Mack.	Clerk.	28	248 Cedar st.	Clerk.
"	204	Edward H. Booth.	Hoseman.	40	35 Durfee st.	Car inspector.
"	206	John H. Ryan.	"	33	561 Cottage st.	Plumber.
"	205	M. C. Dahill.	"	31	70 Linden st.	Shoemaker.
"	210	Wm. Simmister.	"	24	119 Austin st.	Clerk.
"	209	C. A. Galligan.	"	23	61 Durfee st.	Merchant.
"	207	J. D. Manseau.	"	25	Collins st.	Clerk.
"	203	Geo. A. Bosworth.	"	27	9 Richmond st.	Carpenter.
"	201	E. H. Coggeshall.	"	21	126 Mt. Pleasant street.	Clerk.
"	212	Jas. M. Whittaker.	Substitute.	26	342 Cedar st.	Driver.
Nov. 1, 1890.		C. L. Dunham.	"	23	1036 Acushnet av.	Plumber.
Sept. 1, 1890.	199	James R. Goddard.	Engineer.	33	59 Mt. Pleasant street.	Engineer.
"	200	William H. King.	Driver.	27	53 Mt. Pleasant street.	Hostler.
"	202	A. W. Tripp.	Stoker.	39	Durfee and Ashland.	Shoemaker.
"	208	James McDonell.	Reel driver	22	130 Austin st.	Merchant.

HANCOCK ENGINE CO., No. 9.

House located at Acushnet. Engine built by John Agnew of Philadelphia, in 1843. Engine removed to Acushnet January 18, 1861, and a company was organized to man her at that time. Company reorganized December 14, 1878.

Date of Joining.	No. of Badge	Name.	Rank.	Age.	Residence.	Occupation.
Dec. 14, 1878.	146	John A. Russell.	Captain.	40	Acushnet av.	Farmer.
May 7, 1883.	147	Francis P. Washburn.	1st Lieut.	47	"	Carpenter.
Dec. 14, 1878.	154	Joseph W. Spooner.	2d Lieut.	38	"	Peddler.
"	165	Allen Russell, Jr.	Clerk.	33	"	Grocer.
May 1, 1882.	159	Israel H. Peckham.	Suction Hoseman.	48	Tarkiln Hill road.	Blacksmith.
Dec. 14, 1878.	158	Lemuel A. Washburn.	"	52	Acushnet av.	Teamster.
"	153	Wm. T. Gifford.	Leading Hoseman.	43	Mill st.	Farmer.
"	160	Herbert M. Spooner.	"	33	Acushnet av.	Box maker.
Sept. 3, 1883.	151	John G. Whalon.	"	29	"	Box maker.
Sept. 7, 1885.	155	James L. Haskins.	"	25		Teamster.
Feb. 4, 1889.	161	William P. Reed.	Steward.	37	Tarkiln Hill road.	Teamster.
Dec. 14, 1878.	149	John Silvia.	Brakeman.	53	Belleville road.	Shoemaker.
Nov. 1, 1886.	150	Job T. Haskins.	"	44	Mill st.	Box maker.
Dec. 14, 1878.	148	Andrew B. Grinnell, Jr.	"	51	Acushnet av.	Grocer.
"	152	James A. Wilbur.	"	45	Mill st.	Barber.
"	157	Geo. W. Randall.	"	53	Main st.	Sawyer.
"	166	Eli W. Reed.	"	52	Tarkiln Hill road.	Teamster.
Dec. 4, 1882.	164	George N. Hawes.	"	36	Acushnet av.	Teamster.
Dec. 6, 1886.	145	John F. Parker.	"	21	"	Carriage painter.
June 14, 1888.	162	John G. Dawson.	"	26	Tarkiln Hill road.	Clerk.
Jan. 7, 1889.	163	Nathaniel C. Briggs.	"	53	Acushnet av.	Carpenter.
Mar. 3, 1890.	156	Albert K. Poole.	"	23	"	Teamster.
May 3, 1886.		George H. Gifford.	Substitute.	19	"	
May 7, 1888.		John B. Wilbar.	"	19	Mill st.	Plumber.

HOOK AND LADDER CO. No. 1.

House corner of Purchase street and Mechanics lane. Carriage built by La France Steam Fire Engine Co., Elmira, N. Y.; put into commission August 30, 1888.

Date of Joining.	No. of Badge.	Name.	Rank.	Age.	Residence.	Occupation.
Jan. 31, 1870.	87	Lysander W. Davis.	Captain.	57	106 Chestnut st.	Carpenter.
Jan. 5, 1884.	101	Frank Spooner.	1st Lieut.	34	17 So. Second st.	Painter.
Jan. 22, 1890.	104	Philip C. Russell.	2d Lieut.	28	4 Walnut st.	Laborer.
Mar. 30, 1874.	89	Charles E. Pierce.	Clerk.	43	123 Fifth st.	Printer.
1888.	88	John W. Cannavan.	Ladder-man.	26	Mt. Pleasant House.	Shoemaker.
Aug. 1, 1879.	96	Nat. H. Caswell.	Axeman.	42	239 Acushnet av.	Blacksmith.
June 24, 1883.	105	Edward D. Francis.	Ladder-man.	33	26 Kempton st.	Shoemaker.
June 24, 1889.	91	Wm. L. Fletcher.	"	25	129 Kempton st.	Machinist.
Nov. 29, 1886.	103	Alfred M. Gifford.	"	27	72 Walden st.	Teamster.
Aug. 5, 1865.	102	Charles J. Johnson.	"	58	23 Locust st.	Spar maker.
Mar. 29, 1886.	95	Andrew V. Landers.	"	52	3 Kempton st.	Shoemaker.
Oct. 26, 1863.	90	Abram R. Luscomb.	"	51	42 Parker st.	Laborer.
Sept. 26, 1887.	100	Loren N. Mosher.	"	33	30 Elm st.	Shoemaker.
June 24, 1889.	107	William R. Russell.	"	23	4 Walnut st.	Ornamenter.
Aug. 7, 1863.	86	Philip M. Tripp.	"	52	102 Ash st.	Teamster.
July 26, 1880.	92	Clarfus Vansant.	Axeman.	53	Corner Mill and Acushnet av.	Blacksmith.
May 26, 1890.	106	Wm. W. Braman.	Substitute.	21	39 So. Second st.	Clerk.
July 25, 1890.	98	George A. Caswell.	"	20	239 Acushnet av.	Mat maker.
Sept. 1, 1888.	93	George S. Allen.	Driver.	30	103 Acushnet av.	Hostler.
Sept. 13, 1888.	97	Charles W. Vining.	Tillerman.	33	Engine house.	

HOOK AND LADDER CO. No. 2.

House on Weld street. Carriage built by Joseph T. Ryan of Boston; put into commission August 4, 1877. Present company organized September, 1888.

Date of Joining.	No. of Badge	Name.	Rank.	Age.	Residence.	Occupation.
Sept. 1, 1888.	171	Henry W. Kenyon.	Captain.	48	910 Acushnet av.	Salesman.
"	172	Edward F. Dahill.	1st Lieut.	28	Hazard and Pleasant.	Merchant.
"	173	Albert W. Moore.	2d Lieut.	40	32 Weld st.	Barber.
"	180	Peter F. Sullivan.	Clerk.	30	370 State st.	Grocer.
"	176	John W. Bannister.	Ladder-man.	29	110 Merrimac st.	Salesman.
"	177	John S. Harrington.	"	31	Weld and Pleasant.	Baker.
"	178	David Warren.	"	34	235 State st.	Stable keeper.
"	179	William McCann.	"	30	Howard st.	Roller coverer.
"	175	Martin H. Sullivan.	Axeman.	33	1017 Purchase st.	Carpenter.
"	181	Edward T. Ryan.	Ladder-man.	33	County and Penniman.	Druggist.
"	182	Alfred Chausse.	"	23	Bowditch st.	Clerk.
"	183	Jeremiah T. Haggerty.	"	22	Bowditch st.	Grocer.
May 1, 1890.	184	Frank R. Pease.	Substitute.	33	926 Acushnet av.	Druggist.
Sept. 1, 1890.	174	Timothy E. Lowney.	"	22	847 Purchase st.	Carpenter.
Sept. 1, 1888.	108	Lewis G. Allen.	Driver.	68	Engine house.	Hostler.

HOSE COMPANY No. 1.

House corner of Purchase street and Mechanics lane. Wagon built by Brownell, Ashley & Co., New Bedford; put in commission December 1, 1888. Company organized December 31, 1871.

Date of Joining.	No. of Badge	Name.	Rank.	Age.	Residence.	Occupation.
Mar. 6, 1885.	79	Charles T. Maxfield.	Captain.	26	49 Mechanics lane.	Printer.
1889.	83	John W. Baker.	1st Lieut.	29	200 Pleasant st.	Carpenter.
1888.	80	Wm. H. Maxfield.	2d Lieut.	24	49 Mechanics lane.	Painter.
Jan. 1, 1873.	81	James S. Hathaway.	Clerk.	60	496 Acushnet av.	Shipwright.
Dec. 6, 1873.	82	David W. Howland.	Hoseman.	54	45 North st.	Blacksmith.
	84					
Dec. 1885.	78	Augustus G. Mitchell.	Hoseman.	31	86 No. Second st.	Painter.
1887.	85	John B. Oliver.	"	26	200 Elm st.	Blacksmith.
1889.	167	William H. Young.	Substitute.	30	129 Purchase st.	Laborer.

HOSE COMPANY No. 2.

House on Weld street. Carriage built by the Amoskeag Manufacturing Co., Manchester, N. H.; weight of carriage and 900 feet of vulcanized rubber hose, 2790 lbs.; put into service January 1,1872. Present company organized December 3, 1888.

Date of Joining.	No. of Badge	Name.	Rank.	Age.	Residence.	Occupation.
Dec. 3, 1888.	186	Joseph Dawson.	Captain.	30	643 Purchase st.	Salesman.
"	187	Mark Watson.	1st Lieut.	31	990 Purchase st.	Salesman.
"	188	Stephen L. Finnell.	2d Lieut.	31	17 Reynolds st.	Salesman.
"	192	George C. Hewins.	Clerk.	19	762 County st.	Clerk.
"	189	Bartholomew P. Fury.	Hoseman.	26	804 Purchase st.	Mule spinner.
"	190	Frank E. Foley.	"	23	State st.	Fish dealer.
April 16, 1880.	189	Wm. Wolfenden.	"	21	399 Pleasant st.	Barber.
Aug. 19, 1890.	194	Harry Greenhalgh.	Substitute.	24	Purchase st.	Grocer.
Dec. 3, 1888.	193	Reuben Taber.	Driver.	35	32 Bowditch st.	Hostler.

NEW BEDFORD PROTECTING SOCIETY.

President, Charles S. Kelley; First Director, Jonathan Handy; Second Director, William A. Robinson; Third Director, Charles H. Lawton; Fourth Director, Edward T. Pierce; Fifth Director, Charles M. Haskell; Sixth Director, Edmund F. Maxfield; Seventh Director, Edmund Wood, Eighth Director, John H. Lowe; Secretary and Treasurer, Edmund L. Wilde.

Francis T. Akin,
Gilbert Allen,
Gideon Allen, Jr.,
George H. H. Allen,
William Bamford,
O. Frank Bly,
Standish Bourne,
George E. Briggs,
Thomas Boardman,
Charles A. Case,
R. C. P. Coggeshall,
Clifton H. Cornish,
Edwin Dews,
Henry C. Denison,
John H. Denison,
Ernest A. Dunham,
Joseph Dias,
Walter F. Field,
Edward R. Gardner,
John E. Gibbs,
Edmund Grinnell,
Frank H. Gifford,
Chas. H. Gifford,
A. W. Hadley,
Charles H. Holden,
John J. Howland,
Charles M. Hussey,
Henry F. Hammond,
Henry Howard,
Thomas H. Knowles,
G. D. Kingman,
Edgar R. Lewis,
Philander F. Manchester,
Willard Nye, Jr.,
Otis N. Pierce,
William F. Potter,
Arthur E. Perry,
James N. Parker,
William H. Pitman,
Charles L. Paine,
William F. Reed,
Morgan Rotch,
William A. Russell,
Arthur E. Robbins,
Louis H. Richardson,
Gardner T. Sanford,
Frank E. Sawin,
R. W. Swift,
Frederick Swift,
William T. Smith,
Leander H. Swift,
Edward S. Shaw,
Robert Snow,
Charles M. Taber,
William T. Taylor,
Henry W. Taylor,
Alfred Thornton,
Alfred G. Wilbor,
William H. Willis,
Horace Wood,
Frederick A. Washburn,
Thomas F. Wood,
William R. West,
Mark T. Vincent.

Fire Alarms, Losses, and Insurance for 1890.

The loss by fire for the year 1890 was $18,145.02. Amount of insurance, $71,300. Number of bell alarms, 43. Still and telephone alarms, 46.

Jan. 3, 12.18 A. M. Box 27. Fire in building on Union street owned by heirs of Joseph Brownell and occupied by H. S. Hutchinson and others. Cause, defective chimney. Companies responding: Engines 2 and 4, Hook and Ladder 1, and Hose 1. Alarm given by Officer Sisson.

Jan. 3, 12.20 A. M. Box 27. Second alarm for same fire. Companies responding: Engines 1 and 5, Hook and Ladder 2. Loss on building, $980; insurance on building, $3,000. Loss on contents, $3,514.75; insurance, $11,300.

Jan. 3, 2.03 P. M. Box 26. Planing mill on Water street owned and occupied by Tillinghast & Terry. Cause, fire in shaving bin. Companies responding: Engines 1 and 2, Hook and Ladder 1, and Hose 1. Alarm given by Charles S. Paisler. No loss.

Jan. 4, 8.45 A. M. Box 23. Fire in house on Kempton street owned by John Green. Cause, sparks from chimney. Companies responding: Engines 2 and 5, Hook and Ladder and Hose 1. Alarm given by citizen. No loss.

Jan. 4, 6.40 P. M. (Telephone.) Fire in Wamsutta Club House, County street, owned and occupied by Wamsutta Club. Cause, overheated furnace. No loss.

Jan. 4. (Telephone.) Fire in house owned by George H. W. Tripp and occupied by R. J. Rooney. Cause, explosion of lamp. Extinguished by men from No. 6. Loss on building $25; insurance, $1,300. Loss on contents, $273; insurance, $800.

Jan. 9, 9.09 A. M. Box 12. Fire in house on Grand street, owned and occupied by Edgar H. Gammons. Cause, sparks from chimney. Companies responding: Engines 1 and 5, Hook and Ladder 2, and Hose 2. Alarm given by citizen. No loss.

Jan. 9, 4.45 P. M. (Still.) Fire in house on Water street, south of Griffin, owned by John D. Rodgers and occupied by Abram Mendellsum. Cause, overheated stove pipe. Extinguished by men from No. 4. Loss on building, $70. No insurance.

Jan. 10, 9.45 P. M. (Telephone.) Chimney fire in house owned by Mrs. S. Ricketson. Extinguished by men from No. 4 engine house. No loss.

Jan. 10, 10.45 A. M. (Telephone.) Fire in house on Parker street, owned by Dr. George T. Hough and occupied by William H. Allen. Extinguished by men from No. 5 engine house. No loss.

Jan. 16, 6 P. M. (Telephone.) Chimney fire in house on Hawthorn street, owned and occupied by Edward D. Mandell. Extinguished by men from No. 4 engine house. No loss.

Jan. 16, 11.20 P. M. (Still.) Chimney fire in house owned and occupied by John L. Paddock. Extinguished by men from No. 6 engine house. No loss.

Jan. 17, 6 P. M. (Telephone.) Chimney fire in house owned and occupied by Hon. Charles S. Randall. Extinguished by men from No. 4 engine house. No loss.

Jan. 22, 7 A. M. Box 35. Fire in house on Spring street, owned by heirs of Joseph Brownell. Companies responding: Engines 2 and 4, Hook and Ladder and Hose 1. Alarm given by citizen. Loss on building, $29.75; insurance, $500. Loss on contents, $50; no insurance.

Jan. 22, 6 P. M. (Telephone.) Chimney fire in house owned and occupied by Mrs. L. M. Snow. Extinguished by men from No. 4 engine house. No loss.

Jan. 25, 6.50 P. M. Box 56. Fire in building owned and occupied by Philias Roy. Companies responding: Engines 4 and 6, Hook and Ladder and Hose 1. Alarm given by citizen. Loss slight.

Feb. 7, 6 A. M. (Telephone.) Chimney fire in house owned and occupied by Walter Clifford. Extinguished by men from No. 4 engine house. No loss.

Feb. 9, 3 P. M. (Telephone.) Fire in house owned by W. F. Oesting, caused by electric light wires. Extinguished by men from No. 6 engine house. No loss.

Feb. 11, 10 a. m. (Still.) Fire in building owned by Nathan Chase, and occupied by George E. Jacobs and others. Caused by lantern breaking in rubbish. Extinguished by men from Central engine house. No loss.

Feb. 16, 5.17 a. m. Box 37. Fire in building in the rear of residence of the Hon. Morgan Rotch, owned and occupied by Mr. Rotch. Cause unknown. Companies responding: Engines 4 and 5, Hook and Ladder 1, and Hose 1. Alarm given by Chief Macy. Slight loss.

March 1, 9.04 A. M. (Telephone.) Chimney fire in house owned and occupied by Gardner T. Sanford. Extinguished by men from No. 4 engine house. No loss.

March 8, 10.55 A. M. Box 35. Fire in meeting house owned and occupied by Trinitarian society, corner of Fourth and School streets. Cause, defective furnace. Companies responding: Engines 2 and 4, Hook and Ladder 1, and Hose 1. Alarm given by citizen.

March 8, 11 A. M. Box 35. Second alarm for same fire. Companies responding: Engines 5 and 6 and Hook and Ladder 2. Alarm given by Chief Macy.

March 8, 11.05 A. M. Box 35. Third alarm for same fire. Companies responding: Hose 2 and Engine 1. Alarm given by Chief Macy. Loss on building, $5,500; insurance, $6,000. Loss on contents, $3,000; insurance, $3,300.

March 17, 10.11 A. M. Box 23. Fire in dwelling house on Jenney street, owned by Matthew Burke and occupied by Mrs. McAfee. Cause, unknown. Companies responding: Engines 2 and 5, Hose 1, and Hook and Ladder 1. Alarm given by citizen. Loss, $395; insurance, $500.

April 13. (Telephone.) Chimney fire in house No. 112 Fourth street, occupied by Mrs. H. G. O. Cole. Extinguished by men from No. 4 engine house.

April 14, 10.15 A. M. Box 15. Fire in dwelling house No. 99 Smith street, owned by John Corish and occupied by Andrew Morancy. Cause, overheated stove. Companies responding: Engines 1 and 5, Hook and Ladder 2, and Hose 2. Alarm given by citizen. No loss.

April 20, 2.15 A. M. Box 36. Fire in Grinnell's iron foundry, owned and occupied by Edmund Grinnell. Cause, overheated chimney. Companies responding: Engines 2 and 4, Hook and Ladder 1, and Hose 1. Alarm given by citizen. No loss.

April 21. Box 48. Fire in house No. 209 South Second street, owned by Charles H. L. Delano, and occupied by Francis Little and David S. Wilcox. Cause, sparks from chimney. Companies responding: Engines 4 and 6, Hook and Ladder 1, and Hose 1. Alarm given by Harry K. Snow. Loss on building, $14; insurance, $1,200.

April 22. (Still.) Chimney fire in house on William street, owned and occupied by Charles R. Sherman. Extinguished by men from Central engine house. No loss.

April 26, 6 A. M. (Telephone.) Fire in hoisting engine on Corson's wharf. Cause, hot ashes. Extinguished by men from Central engine house. No loss.

April 28. (Telephone.) Chimney fire in house on Arnold street, owned and occupied by Frederick Swift. Extinguished by men from Central engine house. No loss.

April 29, 9 P. M. Box 17. Fire in house No. 520 Acushnet avenue, occupied by Catherine Leary and others. Cause, lamp explosion.

Companies responding: Engines 1 and 5, Hook and Ladder 1, and Hose 1. Alarm given by citizen. Mrs. Leary was so badly burned that she died the next day. No damage to building or contents.

May 4, 1 P. M. Box 48. Fire in house Nos. 486 and 488 South Water street, occupied by Mrs. Baptiste. Cause, curtain blowing against lighted candle. Companies responding: Engines 4 and 6, Hook and Ladder 1, and Hose 1. Alarm given by citizen. Loss on contents, $29; insurance, $800.

May 14, 7 A. M. Box 45. Fire in house corner of Orchard and Washington streets, owned by John S. Cook, and occupied by Edwin Dews. Cause, unknown. Companies responding: Engines 4 and 6, Hook and Ladder 1, and Hose 1. Alarm given by citizen. Loss on contents, 108.50; insurance, $2,000.

May 15. (Telephone.) Chimney fire in house No. 293 South Front street, occupied by F. H. Sylva. Extinguished by men from No. 6 engine house. No loss.

June 12, 9.35 P. M. Box 6. Fire in house No. 42 Hazard street, owned and occupied by David Moncrief. Cause, lightning. Companies responding: Engines 1 and 5, Hook and Ladder 2, and Hose 2. Alarm given by citizen. Loss on building, $70; insurance, $1,300.

June 13, 8 A. M. (Telephone.) Alarm caused by smoke seen in telegraph office on North Water street, occupied by Western Union Telegraph Company and others. Responded to by men from Central engine house. No fire.

June 13, 11 A. M. (Telephone.) Alarm caused by smoky furnace in China Hall building belonging to estate of George Tappan, and occupied by Henry C. Hathaway. Responded to by men from Central engine house. No fire.

June 21. (Telephone.) Chimney fire in house No. 22 Madison street. Extinguished by men from No. 4 engine house. No loss.

June 25. (Telephone.) Chimney fire in house corner of High and County streets, owned by heirs of Charles Brownell and occupied by Mrs. Ebenezer Pierce. Extinguished by men from No. 5 engine house.

July 4, 12 M. Box 7. Fire in barn rear of No. 7 Franklin street, owned by Henry P. Jenney. Cause, fireworks. Companies responding: Engines 1 and 5, Hose 2, and Hook and Ladder 2. Alarm given by citizen. No loss.

July 10, 10.15 A. M. Box 46. Fire in blacksmith shop on Pine street, owned by Amos R. Caswell and occupied by Caswell Bros. and J. F. Parker. Cause, sparks from chimney. Companies responding: Engines 4 and 6, Hook and Ladder 1, and Hose 1. Alarm given by citizen. No loss.

July 10, 12 M. Box 34. Fire in house corner of South Water street and Shepherd's lane. Cause, defective stovepipe. Companies responding: Engines 2 and 4, Hook and Ladder 1, and Hose 1. Alarm given by citizen. No loss.

July 15. (Telephone.) Fire in Mount Washington Glass Works, owned and occupied by Mount Washington Glass Company. Cause, sparks from chimney. Extinguished by men from No. 4. No loss.

July 19, 12 M. (Telephone.) Fire in fish market on Market street, occupied by Lathrop Clark. Responded to by men from Central engine house. No loss.

August 4, 8 A. M. Box 5. Fire in house rear of 77 Linden street, owned and occupied by Sarah J. Sisson. Cause, overheated stovepipe. Companies responding: Engines 1 and 5, Hook and Ladder 2, and Hose 2. Alarm given by citizen. No loss.

Aug. 14, 2 P. M. Box 39. Fire in house corner Griffin street and Acushnet avenue, owned by Capt. Edwin Matthews and occupied by Addison E. Russell and Karl Krause. Cause unknown. Companies responding: Engines 4 and 6, Hook and Ladder 1, and Hose 1. Alarm given by citizen. Loss on building, $457.50; insurance, $3,500. At this fire Mr. Stephen Russell was quite badly burned.

Aug. 16, 2.40 P. M. Box 27. Fire in stable on Mechanics lane, occupied by Oscar Douglass. Cause, sparks from chimney. Companies responding: Engines 2 and 4, Hook and Ladder 1, and Hose 1. Alarm given by citizen. No loss.

Aug. 23, 11.25 P. M. Box 26. Fire in building on Fish island, owned by heirs of A. H. Howland, and occupied by David Duff & Son and Peter Black. Cause, incendiary. Companies responding: Engines 1 and 2, Hook and Ladder 1, and Hose 1. Alarm given by citizen. Loss on building, $125; insurance, $1,500.

Aug. 25, 12 P. M. Box 18. Fire in cooper shop on Water street, foot of Hillman street, belonging to Rodman estate, and occupied by Thomas Luce. Cause, incendiary. Companies responding: Engines 1 and 2, Hook and Ladder 1, and Hose 1. Alarm given by citizen. Loss on building, $250; insurance, $2,000. Loss on contents, $2,000; insurance, $2,000.

Aug. 21, 1 P. M. (Still.) Fire in shop on Acushnet avenue, owned by T. B. Wilcox, and occupied by Paul J. Oesting. Cause, ignition of fly paper. Loss on building, $200; insurance, $2,000. Loss on contents, $426.25; insurance, $4,500.

Aug. 25, 9 P. M. (Telephone.) Shop on corner Water and Union streets, occupied by Charles Taber & Co. Cause unknown. Responded to by men from Central engine house. No loss.

Aug. 25, 7.15 P. M. (Still.) Fire in store on corner of Purchase and Franklin streets, owned by James Groat and occupied by T. F. Healey. Cause lamp falling in window. Extinguished by men from No. 1 engine house. No loss.

Aug. 25. (Still.) Chimney fire in house on Cottage street. Extinguished by men from No. 5 engine house.

Aug. 25. (Still.) Chimney fire in house corner of South Water and Potomska streets. Extinguished by men from No. 6 engine house. No loss.

Aug. 28, 1.35 P. M. Box 26. Fire in Parker's Block, Middle street. Cause, sparks from chimney. Companies responding: Engines 1 and 2, Hook and Ladder 1, and Hose 1. Alarm given by citizen. No loss.

Aug. 30. Box 28. Fire in haystack owned by James Shields. Caused by boys at play. Companies responding: Engines 2 and 5, Hook and Ladder 1, and Hose 1. Alarm given by citizen. No loss.

Sept. 6, 12.50 A. M. Box 34. Fire in store under Mansion House, owned by Viall & Cook and occupied by James L. Humphrey, Jr. Cause unknown. Companies responding: Engines 2 and 4, Hook and Ladder 1, and Hose 1. Alarm given by citizen. Loss on building, $119; insurance, $13,000. Loss on contents, $161.06; insurance, $2,200.

Sept. 17, 7.20 A. M. (Still.) Fire in house 47 Smith street, corner of Summer, owned by Mrs. Martha Only, and occupied by William Only. Cause, explosion of lamp. No loss.

Sept. 18. (Still.) Fire in shop on Second street owned and occupied by Tilden Bros. Cause, sparks from chimney. No loss.

Sept. 19. (Still.) Caused by smoke in building on Purchase street, owned and occupied by C. W. Hurll. No fire.

Sept. 19. (Telephone.) Fire in Mount Washington Glass Work's cooper shop, owned and occupied by Mount Washington Glass Company. Extinguished by men from No. 4. No loss.

Sept. 24. (Telephone.) Chimney fire in house corner of Union and County streets, owned and occupied by John C. Rhodes. Extinguished by men from No. 4. No loss.

Sept. 24, 5.30 P. M. (Still.) Fire in house in Howland street block, owned and occupied by Anne Mercy. Cause, children playing with matches. No loss.

Oct. 9, 7.15 A. M. (Still.) Chimney fire in house 72 State street, owned by Mrs. David, and occupied by John W. Footman. Extinguished by men from No. 5 engine house. No loss.

Oct. 14, 5.50 P. M. Box 24. Fire in house 107 Cedar street, owned by

Mrs. Dyer and occupied by William L. Cobb and others. Cause, starting fire with kerosene. Companies responding: Engines 2, 5, and 7, Hook and Ladder 1 and Hose 1. Alarm given by Officer Cannavan. At this fire Mrs. Cobb was so severely burned that she died 10 P. M. the same evening. Edward C. Spooner of Progress Engine No. 2, in attempting her rescue, was so badly burned that he died Nov. 1, 1890. Loss on building, $60.96; insurance, $1,000.

Oct. 14. (Still.) Fire in office of John Smith, on Purchase street, caused by crossing of telephone or electric light wires. Loss on building, $5; insurance, $2,500.

Oct. 15, 9.10 P. M. Box 34. Fire in rear of Mansion House, owned by Viall & Cook. Cause, incendiary. Companies responding: Engines 2 and 4, Hook and Ladder 1, and Hose 1. Alarm given by citizen. No loss.

Oct. 15, 11 P. M. Box 36. Fire in stable on First street, owned by George T. Russell and occupied by Holder R. Tripp. Cause, incendiary. Companies responding: Engines 2 and 4, Hook and Ladder 1, and Hose 1. Alarm given by Officer Kennedy. Loss on building, $41.07.; insurance, $400.

Oct. 16. (Still.) Chimney fire in house corner of Durfee and Ashland streets, owned and occupied by Augustus Tripp. Extinguished by men from No. 7 engine house. No loss.

Oct. 17. (Still.) Fire in house corner of Middle and Second streets, occupied by Eliza Raymond. Cause, smoke from back draught. Extinguished by men from Central engine house. No loss.

Oct. 25, 6.29 P. M. Box 13. Fire in store No. 292 Cedar street, owned by Mrs. H. C. Gelete and occupied by Miss Mary A. Jackson. Cause, explosion of lamp. Companies responding: Engines 1, 5, and 7, Hook and Ladder 2, and Hose 2. Alarm given by citizen. Loss on building, $13.18; insurance, $400. Loss on contents, $30.00; insurance, $300.

Oct. 31. (Still.) Fire in stable on Linden street, owned by P. H. Edgerton and occupied by H. W. Ames. Cause, overheated stovepipe. Loss on building, $5; insurance, $1,000.

Nov. 1, 9.09 P. M. Box 34. Fire in blacksmith shop on Front street, occupied by E. B. & F. Macy. Cause, sparks from forge. Companies responding: Engines 2 and 4, Hook and Ladder 1, and Hose 1. Alarm given by citizen. Loss on building, $52; insurance, $500.

Nov. 5, 7.23 P. M. Box 18. Fire in shop No. 259 Purchase street, owned by John K. Cushing and occupied by F. N. Carlton. Cause, overheated stove. Companies responding: Engines 1 and 2, Hook and Ladder 1, and Hose 1. Alarm given by citizen. Loss on building, $50; no insurance. Loss on contents, $90; insurance $4,500.

Nov. 20. (Still.) Fire in house 77 Fifth street, occupied by Thomas Deane. Cause, overheated stove. Extinguished by men from No. 4 engine house. No loss.

Nov. 23, 11 A. M. Box 57. Fire in house on Winsor street, occupied by Samuel Olcott. Cause, matches near hot bricks. Companies responding: Engines 4 and 6, Hook and Ladder 1, and Hose 1. Alarm given by citizen. No loss.

Nov. 24, 12 M. Box 57. Fire in house 203 Division street, occupied by Frank C. De Mello. Companies responding: Engines 4 and 6, Hook and Ladder 1, and Hose 1. Alarm given by citizen. No loss.

Nov. 24, 8.40 P. M. Box 58. Fire in carpenter shop on South Water street, owned and occupied by J. C. Warren. Cause, incendiary. Companies responding: Engines 4 and 6, Hook and Ladder 1, and Hose 1. Alarm given by citizen. No loss.

Nov. 28. (Still.) Chimney fire in house on Madison street, owned and occupied by William H. Mathews. Extinguished by men from No. 4 engine house. No loss.

Nov. 29, 9 A. M. Box 34. Fire in house 85 South Water street, occupied by Constance Barrows. Cause, matches. Companies responding: Engines 2 and 4, Hook and Ladder 1, and Hose 1. Alarm given by citizen. No loss.

Nov. 29, 12 M. Box 52. Fire in school house on Division street, owned and occupied by the city. Cause, sparks from chimney. Companies responding: Engines 4 and 6, Hook and Ladder 1, and Hose 1. Alarm given by citizen. No loss.

Nov. 29, 12.03 P. M. Box 52. Second alarm from same box, struck by boy who saw the box open. Companies responding: Engines 2 and 5.

Nov. 29. (Still.) Chimney fire in house on Durfee street, occupied by Edward Bryant. Extinguished by men from No. 4 engine house. No loss.

Dec. 2, 12.50 P. M. Box 23. Fire in house corner of Kempton and Reed streets, occupied by Charles D. Armstrong. Cause, chimney. Companies responding: Engines 2, 5, and 7, Hose 1, and Hook and Ladder 1. Alarm given by citizen. No loss.

Dec. 4. (Still.) Chimney fire in house on Washburn street, occupied by George Levy. Extinguished by men from Weld street engine house. No loss.

Dec. 29. (Still.) Chimney fire in house on Madison street, owned and occupied by William H. Mathews. Extinguished by men from No. 4 engine house.

Dec. 31. (Still.) Chimney fire in house on Spring street, owned and occupied by Hon. A. G. Pierce. Extinguished by men from No. 4 engine house. No loss.

The following is the amount of losses by fire in this city for the past fourteen years, together with the amount of insurance on same:

Years.	Loss.	Insurance.
1877,	$26,063.66	$21,528.36
1878,	28,154.46	66,025.00
1879,	9,163.16	54,950.00
1880,	7,609.13	49,450.00
1881,	26,624.96	86,979.00
1882,	23,169.64	692,950.00
1883,	17,398.14	77,450.00
1884,	134,729.82	310,950.00
1885,	6,982.41	148,025.00
1886,	26,786.03	1,108,800.00
1887,	45,141.50	708,150.00
1888,	32,881.87	125,927.00
1889,	42,285.71	182,772.00
1890,	18,145.02	71,300.00

Fire Alarm Telegraph, 1890.

SUPERINTENDENT.

FREDERICK MACY, Chief Engineer.

ASSISTANT SUPERINTENDENT.

DANIEL D. BRIGGS.

Residence, Engine house, N. W. cor. Bedford and South Sixth streets.
Office, City Hall.

LOCATION OF SIGNAL BOXES.

No. 3.	Lund's Corner.
4.	Acushnet Heights, near reservoir.
123.	Acushnet avenue, near Coffin avenue.
125.	Corner Bowditch and Weld streets.
126.	Cedar Grove and North Front streets.
5.	Linden and Ashland streets.
6.	Hazard and State streets.
7.	Purchase and Franklin streets.
8.	County and Pearl streets.
9.	Wamsutta street and Acushnet avenue.
12.	Shawmut avenue and Durfee street.
13.	Cedar and Locust streets.
14.	Purchase and Willis streets.
15.	Smith and Cedar streets.
16.	County and Hillman streets.
17.	Maxfield street and Acushnet avenue.
18.	Purchase and North streets.
21.	North and Water streets.
23.	Kempton, west of Florence street.
24.	Kempton and Cedar streets.
25.	County and Kempton streets.
26.	Water and Middle streets.
27.	Purchase street and Mechanics lane.

28. Court and Cedar streets.
29. Arnold and Ash streets.
32. Union and Eighth streets.
34. Union and Water streets.
35. Fourth and School streets.
36. Walnut and Water streets.
37. Madison and Orchard streets.
38. Bedford and Sixth streets.
39. Acushnet avenue and Cannon street.
41. Hawthorn and Page streets.
45. Allen and Bonney streets.
46. South Water and Leonard streets.
47. Junction Sixth and County streets.
48. Water and South streets.
51. Dartmouth and Rockland streets.
52. Fourth street, head of Potomska.
56. South Water and Rivet streets.
57. Mosher and County streets.
58. South Water and Cove streets.
*61. Union Street Railway Horse Car Stables.
*62. Grinnell Mill.
*63. Wamsutta Mills.
*64. New Bedford Manufacturing Co.
*65. Hathaway, Soule & Harrington.
*67. New Bedford Cordage Factory.
*68. New Bedford Copper Works.
*71. Pairpoint Manufacturing Co.
*72. George Delano's Sons & Co.'s Works.
*73. Potomska Mills.
*74. Acushnet Mills.
*75. Morse Twist Drill Co.
*76. City Manufacturing Co.
*81. Howland Mills.
*82. Hathaway Mill.
*85. New Bedford Gas Works.
*91. Bennett Mills.
*92. New Bedford Casket Co.

*Private boxes, only to be rung for fire on the premises.

LIST OF FIRE ALARM KEYS FOR 1890.

1 S. C. Hart.
2 A. C. Tripp.
3 David Moncrief.
4 Engine house No. 1.
5 George A. Bourne.
6 Andrew M. Swift.
7 Silas Dammon.
8 Engine house No. 5.
9 Bates & Howard.
10 H. H. Fisher.
11 Store N. W. cor. Kempton and Cedar.
12 Seth Codding.
13 Returned to Chief Engineer.
14 Engine house No. 2.
15 County jail office.
16 J. D. Thompson.
17 Charles Taber.
18 Wm. H. Sherman's stable.
19 Hart & Akin.
20 Henry Taber.
21 Engine house No. 4.
22 Thomas B. Tripp.
23 Greene & Wood Mfg. Co.
24 Cornell's stable.
25 Delano's oil works.
26 B. Dawson.
27 William Hindle.
28 Store N. W. cor. Cedar and Smith.
29 Samuel C. Moore.
30 Edwin Dews.
31 J. B. Ashley.
32 James E. Blake.
33 A. C. Covil.
34 Police.
35 Store N. W. cor. Arnold and Ash.
36 Jireh Swift.
37 J. L. Paddock.
38 Mrs. Joseph Reed.
39 E. Anthony & Sons.
40 Mrs. C. M. Pierce, Jr.
41 Stable, Fourth and Spring.
42 Mercury office.
43 F. C. Bliss.
44 Store S. W. cor. Water and South.
45 A. L. Sylvia.
46 Robinson's oil works.
47 N. W. cor. Acushnet avenue and Maxfield street.
48 Denison Bros.' N. Mill.
49 Police.
50 "
51 Police.
52 "
53 "
54 "
55 "
56 Chief Engineer's office.
57 House N. W. cor. Water and Rivet.
58 Henry H. Fisher.
59 J. P. Kennedy.
60 Police.
61 Edward Hughes, cor. Acushnet and Coffin avenues.
62 Police.
63 Horace G. Howland.
64 William G. Howland.
65 New Bedford Gas Co.
66 Hastings' coal yard.
67 Chief Engineer's office.
68 L. T. Parlow.
69 P. B. Sherman.
70 A. A. Wood.
71 Police.
72 Frederick Macy.
73 George H. Bliss.
74 A. H. Howland.
75 George L. Brownell.
76 James M. Tripp.
77 Potomska Mills.
78 Police.
79 "
80 "
81 "
82 Rufus A. Soule.
83 William H. Sherman.
84 Police.
85 "
86 Wamsutta Mills gate office.
87 Adoniram Negus.
88 Chief Engineer's office.
89 Wamsutta Club House.
90 Police.
91 "
92 "
93 "
94 "
95 "
96 "
97 "
98 "
99 "
100 "
101 "
102 "
103 "

104 Police.
105 "
106 "
107 "
108 "
109 "
110 "
111 "
112 "
113 "
114 "
115 "
116 "
117 "
118 "
119 "
120 D. D. Briggs.
121 Police.
122 E. C. Milliken.
123 Marcus W. Taber.
124 Rodolphus Beetle.
125 Soap factory, cor. Water and Middle streets.
126 Henry T. Wood.
127 Coal pockets, foot of Walnut street.
128 Snell's bakery.
129 A. H. Rhodes.
130 R. S. Lawton.
131 George A. Taylor.
132 L. G. Hewins, Jr.
133 C. S. Paisler.
134 George W. Hillman.
135 Hathaway & Soule's factory.
136 Henry Howard.
137 Mt. Washington Glass Co.
138 A. M. Pierce.
139 F. A. Soule's mill.
140 S. P. Richmond's bakery.
141 E. H. Martin.
142 Police.
143 Geo. A. Cobb.
144 A. Harrington.
145 E. C. Taber.
146 Chief Engineer's office.
147 Frederick Macy.
148 Police.
149 "
150 "
151 "
152 "
153 "
154 "
155 "
156 George S. Handy.
157 James Wilson.
158 No. 6 engine house.
159 George W. Parker.
160 House, S. W. cor. Acushnet avenue and Maxfield street.
161 D. Bromley.
162 Thomas Donaghy.
163 William A. Pease.
164 Police.
165 Henry W. Kenyon.
166 Police.
167 "
168 W. F. Wheaton.
169 T. B. Rowe.
170 Store cor. Allen and Dartmouth streets.
171 George F. Luscomb.
172 Thomas Pelan.
173 William Osgood.
174 Roland Ashley.
175 John H. Lowe.
176 William J. Marr.
177 John Thompson.
178 John Lincoln.
179 L. T. Terry.
180 J. W. Lavers.
181 Chief Engineer's house.
182 Horse car stable, Purchase street.
183 A. H. Mendall.
184 James Davis' store.
185 D. A. Snell's house.
186 Abram Francis.
187 O. G. Brownell.
188 John Wing.
189 Engineer of steamer No. 6.
190 Chief Engineer's office.
191 T. M. Hart.
192 Jonathan Bourne's house.
193 House 510 Acushnet avenue.
194 Mt. Washington Glass Co.
195 Acushnet Mills.
196 Grinnell Mills.
197 " "
198 Pairpoint Mfg. Co.
199 Grinnell Mills.
200 N. B. Cordage Co.
201 Wamsutta Mills.
202 N. B. Cordage Co.
203 " "
204 " "
205 " "
206 Acushnet Mills.
207 " "
208 Wamsutta Mills.
209 " "
210 " "
211 " "
212 Grinnell Mill.
213 N. B. Mfg. Co.
214 Hathaway & Soule.

215 Potomska Mills.
216 Hathaway & Soule.
217 Potomska Mills.
218 " "
219 " "
220 N. B. Mfg. Co.
221 " "
222 " "
223 " "
224 Hathaway & Soule.
225 " "
226 M. T. D. & Machine Co.
227 " "
228 " "
229 " "
230 N. B. Copper Co.
231 " "
232 " "
233 Selmar Eggers.
234 N. B. Copper Co.
235 Delano's oil works.
236 House cor. Hazard and State streets.
237 Pierce & Bushnell Mfg. Co.
238 D. D. Briggs.
239 George W. Hillman.
240 James H. Sherman.
241 Delano's oil works.
242 " "
243 " "
244 Police.
245 "
246 "
247 "
248 "
249 "
250 "
251 John Ward.
252 Louis H. Richardson.
253 N. B. Gas Co.
254 " "
255 " "
256 " "
257 " "
258 " "
259 " "
260 W. K. Wagner.
261 R. S. Taber.
262 Pairpoint Mfg. Co.
263 George B. Wheeler.
264 Mrs. Leonard.
265 F. A. Sowle.
266 C. S. Kelley.
267 Horse car stable, Purchase st.
268 Police.
269 "
270 "
271 John Lowe's store.
272 J. M. Lyons.
273 John Lowe.
274 Henry L. Dunham.
275 William F. West.
276 Benjamin H. Reed.
277 C. K. Turner.
278 Horse car stable, Purchase st.
279 N. B. &. N. Y. Steamship Co.
280 Charles S. Randall.
281 Police.
282 "
283 "
284 Smith Brothers.
285 I. H. Shurtleff.
286 Gate tender's lodge, Wamsutta street.
287 C. O. Andrews.
288 Orphans' Home.
289 J. P. Taylor.
290 Rural Cemetery.
291 George L. Brownell.
292 A. H. Covel.
293 Collamore.
294 Engineer No. 2.
295 O. F. Bly.
296 L. A. Plummer.
297 Dr. Knowles.
298 Edward D. Mandell.
299 F. S. Potter.
300 Loum Snow.
301 Hook and Ladder No. 2.
302 House 83 Dartmouth street.
303 Anthony Hurd.
304 Greene & Wood Mfg. Co.
305 John Smith.
306 William H. Washburn.
307 Horse car stable, Weld street.
308 Bowker & Tripp.
309 Walter Clifford.
310 King Mfg. Co.
311 Police.
312 "
313 "
314 "
315 "
316 "
317 Greenwood House.
318 Grinnell's foundry.
319 Opera House office.
320 Brayton's wood yard.
321 Dr. J. C. Shaw.
322 Police.
323 Janitor Opera House.
324 Engineer of steamer No. 4.
325 H. McDonald.
326 S. C. Lowe's house.
327 Charles Taber.
328 J. W. Howland.

329 J. H. Platt.
330 H. A. Blackmer.
331 A. B. Kimball.
332 John O'Brien.
333 Mrs. Farley.
334 Levi W. Brawley.
335 Joseph Fredricks.
336 Captain J. Sherman.
337 W. P. Booth.
338 F. Russell.
339 Police.
340 Howland Mills.
341 " "
342 " "
343 " "
344 City Mfg. Co.
345 " "
346 " "
347 " "
348 John Duff.
349 T. M. Stetson.
350 Police.
351 "
350 C. Gas Co.
351 C. " "
352 Bennett Mill.
353 " "
352 D. Police.
353 D. Police.
354 N. B. Casket Co.
355 " "
356 Hathaway Mills.
357 " "
358 Morgan Rotch, residence.
359 Engine No. 7.
360 Blossom Bros.' planing mill.
361 William C. Taber, Jr., residence.
362 Howland Mills village.
363 " " "
364 " " "
365 Gas Co.
366 "
367 N. B. Casket Co.
368 " "
369 Bennett Mill.
370 Hathaway Mills.
371 " "
372 Police.
373 "
374 "
375 "
376 "
377 "
378 S. A. Brownell.
379 L. Bartell.

Location of Hydrants.

	Pressure in lbs.
Acushnet avenue, west side, 267 feet north of Tarkiln Hill road. Post.	53
Acushnet avenue, southwest corner of Tarkiln Hill road. Post.	55
Acushnet avenue, west side, south of Tarkiln Hill road 500 feet. Post.	54
Acushnet avenue, west side, south of Tarkiln Hill road 997 feet. Post.	53
Acushnet avenue, west side, north of No. Belleville road 600 feet. Post.	53
Acushnet avenue, west side, north of No. Belleville road 6 feet. Post.	54
Acushnet avenue, west side, south of No. Belleville road 601 feet. Post.	55
Acushnet avenue, west side, north of Shaw 610 feet. Post.	51
Acushnet avenue, northwest corner of Shaw. Post.	47
Acushnet avenue, west side, north of So. Belleville road 603½ feet. Post.	45
Acushnet avenue, west side, head of So. Belleville road. Post.	42
Acushnet avenue, northwest corner of Nash road. Post.	40
Acushnet avenue, northwest corner of Hathaway avenue. Post.	40
Acushnet avenue, northwest corner of Davis. Post.	41
Acushnet avenue, southwest corner of Phillips avenue. Post.	39
Acushnet avenue, southwest corner of Deane. Post.	48
Acushnet avenue, west side, north of Sawyer 574½ feet. Post.	53
Acushnet avenue, southwest corner of Coggeshall. Post.	56
Acushnet avenue, southwest corner of Cedar Grove. Post.	54
Acushnet avenue, west side, south of Logan 335 feet. Post.	60
Acushnet avenue, west side, north of Wamsutta 514 feet. Double.	62
Acushnet avenue, west side, north of Wamsutta 372 feet. Post.	60
Acushnet avenue, west side, south of Wamsutta 255 feet.	63

Acushnet avenue, west side, at end of Wall street. Post. 62
Acushnet avenue, southeast corner of Pope. 64
Acushnet avenue, northwest corner of Willis. 61
Acushnet avenue, west side, south of Campbell 179 feet. 59
Acushnet avenue, northwest corner of Maxfield. 57
Acushnet avenue, northwest corner of Kempton. 47
Acushnet avenue, northeast corner of Elm. 47
Acushnet avenue, northwest corner of School. Post. 51
Acushnet avenue, northwest corner of Madison. Post. 57
Acushnet avenue, northwest corner of Russell. Post. 58
Acushnet avenue, northwest corner of Bedford. Post. 60
Acushnet avenue, west side, opposite Howland. 61
Acushnet avenue, northwest corner of Potomska. Post. 50
Acushnet avenue, west side, north of Rivet 158 feet. Post. 59
Acushnet avenue, southwest corner of Blackmer. 60
Allen street, southeast corner of Bonney. 46
Allen street, northwest corner of Ward. 41
Allen street, north side, east of Page 159 feet. 38
Arch street, southwest corner of Union. 24
Arnold street, south side, west of Orchard 96 feet. Post. 22
Arnold street, southwest corner of Chancery. 33
Arnold street, southeast corner of Atlantic. 32
Ash street, northwest corner of Middle. 27
Ash street, southwest corner of Morgan. Double. 25
Ash street, northwest corner of Arnold. 32
Ash street, northwest corner of Maple. 34
Ash street, northwest corner of Bedford. Post. 37
Ashland street, west side, head of Linden. 11
Atlantic street, west side, 186 feet south of Arnold. Post. 29
Atlantic street, west side, 390 feet north of Arnold. Post. 30
Austin street, southeast corner of State. Post. 42
Austin street, southwest corner of Purchase. Post. 56
Austin street, southeast corner of Cedar. Post. 19
Austin street, south side, on west line of Wilson. Post. 20
Austin street, southwest corner of Ashland. Post. 15
Austin street, southeast corner of Shawmut avenue. Post. 14
Babbitt street, south side, west of Dartmouth. Post. 42
Bedford street, southwest corner of Fifth. Post. 55

Bedford street, southeast corner of County. 47
Bedford street, southeast corner of Orchard. 37
Beech street, northwest corner of Kempton. Post. 18
Beetle street, south side, east of Acushnet avenue. Post. 57
Blackmer street, south side, east of Front 575 feet. Post. 63
Bolton road, west side, south of Rivet 1027 feet. Post. 59
Bolton road, northwest corner of Poplar road. Post. 59
Bonney street, northwest corner of Grinnell. 51
Bonney street, northwest corner of Rockland. Post. 54
Bonney street, west side, 259 feet north of Rivet. Post. 61
Borden street, southwest corner of Bay. Post. 42
Bowditch street, southwest corner of Weld. Post. 56
Bowditch street, west side, 313 feet south of Cedar Grove. Post. . 55
Bowditch street, west side, north of Cedar Grove 244 feet. Post. . 55
Bridge avenue, north side, 44 feet west of draw. 62
Bridge avenue, south side, 11 feet west of draw. 62
Brownell street, west side, north of Union 74 feet. Post. 24
Campbell street, south side, east of County 163 feet. 28
Campbell street, southwest corner of Cypress. Post. 19
Campbell street, south side, east of Emerson 205 feet. 18
Cannon street, south side, east of Second street 164 feet. Post. . . 63
Cedar street, northwest corner of Elm. Double. 25
Cedar street, southwest corner of Kempton. 26
Cedar street, west side, north of Mill 75 feet. 23
Cedar street, southwest corner of Hillman. 23
Cedar street, northwest corner of Sycamore. 21
Cedar street, southwest corner of Campbell. 18
Cedar street, southwest corner of Parker. 19
Cedar Grove street, southeast corner of Front. Post. 60
Cedar Grove street, southeast corner of Howard. Post. 58
Cedar Grove street, south side, 383 feet west of Bowditch. Post. . 57
Cedar Grove street, northwest corner of Purchase. Post. 56
Cedar Grove street, southwest corner of County. Post. 43
Cedar Grove street, south side, west of County. Post. 40
Centre street, south side, east of Water 85 feet. 56
Chancery street, west side, north of Arnold 406 feet. Post. 33
Chancery street, southwest corner of Elm. Post. 28
Chancery street, west side, south of Parker 176 feet. Post. 24

Chancery street, west side, 263 feet north of Parker. Post. 16
Cherry street, southeast corner of Seventh. 38
Chestnut street, southwest corner of North. 19
Chestnut street, west side, north of Campbell 96 feet. 22
Clark street, southwest corner of State. 47
Clark street, south side, 170 feet west of County. Post. 40
Clinton street, south side, east of Orchard 125 feet. 26
Clinton street, south side, west of Ash 242½ feet. Post. 44
Coffin avenue, southwest corner of North Purchase. Post. 40
Coffin avenue, south side, opposite Oneko lane. Post. 40
Coffin avenue, southeast corner of Bowditch. Post. 40
Coffin avenue, south side, 347 feet east of Acushnet avenue. Post. 50
Coffin street, north side, 262 feet east of Water. Post. 62
Coggeshall street, south side, 75 feet west of Rock. Post. 63
Coggeshall street, southwest corner of Front. Post. 61
Coggeshall street, southwest corner of Purchase. Post. 53
Coggeshall street, southeast corner of County. Post. 43
Columbia street, south side, west of Clay. Post. 46
Commercial street, north side, east of Front 82 feet. Post. 62
Cottage road, south side, 435 feet west of Bolton road. Post. . . . 55
Cottage street, southwest corner of Bay. Post. 43
Cottage street, northwest corner of Allen. 42
Cottage street, northwest corner of Bedford. 37
Cottage street, northwest corner of Hawthorn. 31
Cottage street, southwest corner of Arnold. 23
Cottage street, southwest corner of Union. 22
Cottage street, southwest corner of Kempton. Post. 22
Cottage street, northwest corner of Hillman. 20
Cottage street, northwest corner of Sycamore. 20
Cottage street, west side, 237 feet north of Locust. Post. 20
County street, west side, 200 feet north of Coggeshall. Post. . . . 44
County street, southeast corner of Penniman. Post. 44
County street, west side, 234½ feet south of Clark. Post. 43
County street, west side, 115 feet south of Weld. Post. 42
County street, southwest corner of Austin. Post. 33
County street, northwest corner of Locust. Post. 24
County street, northwest corner of Parker. 23
County street, southwest corner of Smith. Post. 30

County street, southwest corner of Maxfield. 25
County street, southwest corner of North. 21
County street, southwest corner of Middle. Double. 22
County street, southwest corner of Morgan. Post. 22
County street, northwest corner of Union. 24
County street, west side, head of School. 27
County street, northwest corner of Madison. 32
County street, southwest corner of Hawthorn. 36
County street, northwest corner of Allen. 49
County street, southwest corner of Grinnell. Post. 61
County street, northwest corner of South. Post. 62
County street, northwest corner of Rockland. 61
County street, southwest corner of Thompson. Post. 58
County street, northwest corner of Rivet. Post. 57
County street, northwest corner of Winsor. Post. 57
County street, west side, 71 feet north of Division. Post. 54
County street, northwest corner of Cove road. Post. 62
Court street, southwest corner of Orchard. 22
Court street, south side, opposite Cedar. 23
Court street, northeast corner of Ash. Post. 20
Court street, south side, opposite Emerson. 26
Court street, south side, west from Park street 304 feet. 32
Court street, south side, head of Jenney. Post. 23
Court street, south side, east of Reed 300 feet. Post. 22
Cove street, south side, east of Water 487 feet. 62
Cove street, south side, west of Water 334½ feet. Post. 60
Cove street, southeast corner of County. Post. 72
Crapo street, west side, south of Washington 343 feet. 60
Crapo street, west side, south of Rockland 225 feet. 63
Crapo street, west side, 160 feet south of Thompson. Post. 58
Dartmouth street, east side, southwest of Orchard 110 feet. 47
Dartmouth street, east side, 125 feet south of Hickory. Post. . . . 47
Dartmouth street, east side, 260 feet south of Rockland. Post. . . 45
Dartmouth street, east side, 99 feet south of Thompson. Post. . . 44
Dartmouth street, southeast corner of Larch. Post. 42
Delano street, southwest corner of Water. Post. 57
Delano street, southeast corner of Acushnet avenue. Post. 57
Division street, southeast corner of Second. Post. 61

Division street, south side, 527 feet west of County. Post. 62
Division street, south side, east of Crapo 6 feet. Post. 58
Durfee street, southwest corner of Cedar. Post. 15
Durfee street, southwest corner of Bullock avenue. Post. 17
Durfee street, southwest corner of Shawmut avenue. Post. 12
Elm street, southwest corner of Pleasant. 38
Elm street, southwest corner of Summer. 18
Elm street, south side, 43.5 feet west of Florence. Post. 26
Elm street, southeast corner of Reed. Post. 20
Emerson street, southwest corner of Willis. 19
Emerson street, southwest corner of Parker. 18
Fifth street, southwest corner of School. Post. 45
Fifth street, west side, south of Madison 245 feet. 50
Fifth street, northwest corner of Wing. Post. 59
Fifth street, northwest corner of Grinnell. 61
First street, southwest corner of Spring. 58
First street, west side, south of School 109 feet. 57
First street, west side, south of Howland 185 feet. 65
First street, west side, south of South 255 feet. 63
Florence street, west side, north of North 180 feet. Post. 26
Florence street, northwest corner of Mill. Post. 24
Florence street, west side, 199.6 feet south of Kempton. Post. . . 27
Florence street, southwest corner of Morgan. Post. 29
Forest street, south side, west of County 90 feet. 53
Foster street, southwest corner of Maxfield. 37
Foster street, northwest corner of High. 23
Fourth street, west side, north of School 106 feet. 46
Fourth street, west side, south of Madison 210 feet. 54
Fourth street, east side, opposite Washington. Post. 57
Fourth street, northwest corner of Rockland. 62
Fourth street, west side, south of Potomska 61 feet. Post. 58
Franklin street, southwest corner of Pleasant. 43
Franklin street, southwest corner of State. Post. 38
French avenue, west side, south of Cove road 14 feet. 60
Front street, west side, south of Washburn 319 feet. 62
Front street, west side, south of Logan 383 feet. Post. 63
Front street, southeast corner of Wamsutta. Post. 65
Front street, southwest corner of Hazard's lane. 61

Front street, southwest corner of Centre. 61
Front street, west side, south of Commercial 86 feet. 63
Front street, northwest corner of lane head of Merrill's wharf. . . 65
Front street, west side, south of Howland 268 feet. Post. 61
Front street, southwest corner of Grinnell. Post. 62
Front street, west side, south of South 330 feet. Post. 62
Front street, west side, north of Delano 191 feet. Post. 62
Fruit street, south side, east of Hemlock 126.5 feet. Post. 53
Fruit street, south side, 45 feet east of Mulberry. Post. 47
Gifford street, south side, 700 feet east of Water. Post. 66
Gifford street, south side, 274 feet east of Water. Post. 65
Grape street, south side, west of Lewis 131 feet. Post. 36
Grape street, south side, west of Lewis 517½ feet. Post. 34
Griffin street, southwest corner of Second. 62
Grinnell street, south side, west of Acushnet avenue 76 feet. . . . 60
Grinnell street, south side, east of Crapo 103 feet. 58
Grinnell street, southwest corner of Orchard. Post. 50
Grove street, southwest corner of Anthony. 32
Harmony street, southwest corner of Social. Post. 59
Harrison street, southwest corner of Hickory. Post. 48
Hawthorn street, southeast corner of Page. 28
Hawthorn street, south side, east of Tremont 147 feet. Post. . . . 28
Hawthorn street, southwest corner of Brigham. Post. 26
Hawthorn street, south side, 301 feet west of Brigham. Post. . . . 24
Hazard street, south side, west of State 140 feet. 36
Hazard street, southwest corner of Pleasant. 46
Hicks street, south side, east of Acushnet avenue 276 feet. Post. . 56
High street, south side, east of Acushnet avenue 43 feet. 48
High street, south side, east of County 177 feet. 23
Hillman street, southwest corner of Second. 57
Hillman street, southeast corner of Hill. 32
Hillman street, southwest corner of Chancery. Post. 29
Howland street, northeast corner of Second. 63
Irving court, north end of court. 25
James street, west side, 190.5 feet south of Union. Post. 28
Katharine street, south side, 66.7 feet east of Crapo. Post. 62
Kempton street, southwest corner of Pleasant. Post. 36
Kempton street, south side, opposite Hill. 28

Kempton street, southwest corner of Summer. 19
Kempton street, southwest corner of Emerson. 26
Kempton street, southwest corner of Park. 28
Kempton street, southwest corner of Liberty. 29
Kempton street, southeast corner of Jenney. 26
Kempton street, south side, west of Hunter 50 feet. Post. 21
Kempton street, southwest corner of Francis. Post. 14
Kilburn street, north side, east of Front 244 feet. Post. 62
Kilburn street, north side, east of Front 581 feet. Post. 64
Larch street, south side, east of Hemlock. Post. 51
Liberty street, west side, south of Kempton 339 feet. 30
Lincoln street, west side, south of Union 171 feet. 23
Linden street, south side, west of State 13½ feet. Post. 43
Linden street, south side, west of County 169 feet. Post. 34
Linden street, south side, 67½ feet west of Reynolds. Post. 24
Linden street, south side, 6½ feet east of Ashland. Post. 14
Lindsey street, west side, 173 feet south of Kempton. Post. . . . 27
Lindsey street, northwest corner of Morgan. Post. 24
Locust street, southwest corner of Chestnut. Post. 23
Locust street, southeast corner of Richmond. Post. 15
Logan street, southwest corner of North Front. 65
Logan street, south side, east of Acushnet avenue 400 feet. 62
Logan street, southwest corner of Acushnet avenue. 63
Lombard street, west side, 209½ feet south of Rockland. Post. . . 50
Madison street, southwest corner of First. 61
Madison street, southwest corner of Sixth. Post. 41
Maitland street, south side, west of Cedar 305 feet. Post. 14
Maxfield street, southwest corner of Second. Post. 58
Maxfield street, southwest corner of Pleasant. Post. 38
Maxfield street, southeast corner of Chestnut. 19
Maxfield street, southeast corner of Spruce. 21
Maxfield street, southwest corner of Ash. Post. 22
Mechanics lane, north side, east of Eighth street 206 feet. 30
Merrimac street, southwest corner of State. Post. 41
Middle street, southeast corner of Second. 54
Middle street, southeast corner of Sixth. Double. 36
Middle street, south side, east of Cedar 371 feet. 32
Middle street, southeast corner of Chancery. 29

Mill street, south side, west of Hill 191 feet. 25
Mill street, south side, west of Ash 45 feet. 25
Morgan street, southwest corner of Cottage. 33
Mosher street, south side, west of County 517 feet. Post. 59
Mt. Pleasant street, southeast corner of distributing reservoir. . . 4
Mt. Pleasant street, west side, north of Durfee 572 feet. 8
Mt. Pleasant street, northwest corner of Durfee. Post. 12
Mt. Vernon street, south side, 359 feet west of Mt. Pleasant. . . . 6
Nelson street, south side, 354 feet west of County. Post. 62
Newton street, northwest corner of Elm. Post. 29
North street, southeast corner of Second. Post. 54
North street, southeast corner of Acushnet avenue. 50
North street, northwest corner of Pleasant. Post. 35
North street, southwest corner of Foster. 35
North street, southwest corner of Park. Post. 29
North street, southeast corner of Newton. Post. 32
North street, southwest corner of Hunter. Post. 22
Oak street, southwest corner of Harrison. Post. 45
Oak street, west side, north of Grape. Post. 42
Ocean street, west side, 184½ feet south of Arnold. Post. 32
Old Point road, west side, east of French avenue 650 feet. 53
Orchard street, west side, head of Madison. 27
Page street, west side, 429½ feet south of Hawthorn. Post. 36
Park place, south side, west of Sixth 306 feet. 32
Park street, west side, south of Kempton 339 feet. Post. 27
Park street, northwest corner of Court. Post. 28
Park street, west side, north of Arnold 263 feet. Post. 34
Parker street, south side of Oak Grove Cemetery. Post. 25
Parker street, southwest corner of Summer. 27
Pearl street, southwest corner of Pleasant. Post. 41
Pine street, northwest corner of Cross. 65
Pleasant street, southwest corner of Market. 37
Pleasant street, west side, north of William 21½ feet. Post. 40
Pleasant street, east side, foot of Sycamore. Post. 39
Pleasant street, northwest corner of Pope. 42
Pleasant street, northwest corner of Austin. 47
Pleasant street, southwest corner of Linden. 48
Pleasant street, southwest corner of Weld. Post. 48

Pope street, south side, opposite North Oak. 32
Pope street, south side, east of Chestnut. Post. 26
Poplar road, south side, 431 feet west of Bolton road. Post. . . . 52
Potomska street, A group of three post hydrants located about 300 feet east of Prospect and 91 feet north of south line of Potomska street 64
Prospect street, west side, south of Howland 157 feet. 64
Prospect street, northwest corner of Grinnell. Post. 63
Prospect street, west side, north of Potomska 324½ feet. Post. . . 62
Prospect street, northwest corner of Potomska. Post. 63
Purchase street, northwest corner of Deane. Post. 43
Purchase street, west side, opposite Oneko Mill. Post. 48
Purchase street, east side, opposite Clark. Post. 58
Purchase street, west side, opposite Logan. 58
Purchase street, northwest corner of Merrimac. Double. 51
Purchase street, northwest corner of Pope. 52
Purchase street, southwest corner of Pearl. Double. 52
Purchase street, southwest corner of Campbell. 47
Purchase street, west side, north of Maxfield 343 feet. Double. . . 46
Purchase street, southwest corner of Hillman. Double. 43
Purchase street, southwest corner of Mill. 42
Purchase street, northwest corner of Middle. 40
Purchase street, west side, at Central engine house. Post. 40
Purchase street, northwest corner of Union. 43
Reed street, west side, 207.8 feet south of Kempton. Post. 18
Reynolds street, southwest corner of Weld. Post. 26
Reynolds street, west side, 268 feet north of Weld. Post. 29
Rivet street, southwest corner of Second. 62
Rivet street, southwest corner of Bonney. Post. 59
Rivet street, southwest corner of Hemlock. Post. 51
Rivet street, southwest corner of Bolton road. Post. 56
Robeson street, southwest corner of County. Post. 26
Robeson street, southwest corner of Ashland. Post. 15
Robeson street, south side, 382 feet west of Ashland. Post. 20
Robeson street, southeast corner of Cedar. Post. 21
Robeson street, south side, 351 feet west of Cedar. Post. 17
Rock street, southwest corner of Washburn. Post. 61
Rock street, west side, north of Coggeshall. Post. 62

Rockland street, southeast corner of Hall. Post. 56
Rockland street, south side, 13 feet west of Orchard. Post. 54
Rockland street, southwest corner of Lombard. Post. 50
Rounds street, northwest corner of Elm. Post. 22
Russell street, south side, east of Fifth 92 feet. 54
Russell street, southwest corner of Sixth. Post. 47
Russell street, south side, 179 feet west of Sixth. Post. 42
Sawyer street, southwest corner of Bowditch. Post. 53
Sawyer street, southwest corner of Acushnet avenue. Post. . . . 59
Sawyer street, southeast corner of Rock. Post. 65
Sawyer street, north side, 717 feet east of Rock. Post. 65
School street, southwest corner of Sixth. Post. 37
Second street, northwest corner of Mill. 55
Second street, west side, south of Elm 52 feet. Post. 52
Second street, west side, south of Spring 74 feet. 55
Second street, northwest corner of Coffin. 61
Second street, west side, at head of Morgan's lane. Post. 60
Second street, west side, north of Grinnell 61 feet. 63
Second street, west side, north of Potomska 232 feet. Post. . . . 61
Second street, west side, south of Potomska 122 feet. Post. 63
Second street, west side, 188 feet south of Blackmer. Post. 59
Seventh street, southwest corner of Union. Post. 31
Seventh street, west side, north of Madison 50 feet. 36
Shawmut avenue, west side, head of Locust. Post. 17
Shawmut avenue, west side, north of Austin. Post. 13
Sherman street, south side, west of County 314 feet. 51
Sisson street, northwest corner of Union. Post. 25
Sixth street, west side, north of Grinnell 194 feet. Post. 60
Smith street, southwest corner of Chestnut. Double. 22
Smith street, southeast corner of Spruce. Double. 20
Smith street, southeast corner of Emerson. 22
Smith street, south side, east of Park 5 feet. Post. 29
South street, southwest corner of Acushnet avenue. 62
South street, southwest corner of Second. 62
South street, southwest corner of Water. Post. 63
South street, southwest corner of Prospect. 64
South Beach road, southwest corner of Bolton road. Post. 57
South Beach road, south side, 327 feet west of Bolton road. Post. . 54

Spring street, southeast corner of Acushnet avenue. Post. 51
Spring street, southwest corner of Seventh. 32
Spring street, southeast corner of Fifth. 42
State street, northwest corner of Sycamore. 35
State street, southeast corner of Pearl. 34
Summer street, northwest corner of North. 16
Summer street, northwest corner of Hillman. 16
Summer street, southwest corner of Willis. 26
Sycamore street, southwest corner of Thomas. 30
Sycamore street, southwest corner of Summer. 24
Sycamore street, south side, west of Ash 68 feet. 22
Taber's wharf, south side, north of Union 36 feet. 63
Thomas street, northwest corner of Hillman. 24
Thompson street, south side, 20 feet east of Hall. Post. 58
Tremont street, southwest corner of Union. Post. 26
Tremont street, northwest corner of Maple. Post. 29
Trinity street, south side, west of Cedar. Post. 19
Union street, southwest corner of Water. Double. 57
Union street, southeast corner of Second. 52
Union street, southwest corner of Acushnet avenue. Double. . . . 48
Union street, southwest corner of Sixth. Post. 38
Union street, southeast corner of Emerson. Post. 28
Union street, south side, 344 feet west of Park. Post. 28
Walden street, southwest corner of Maxfield. 31
Wall street, south side, east of Acushnet avenue 165 feet. 62
Walnut street, northwest corner of Front. Post. 61
Walnut street, southwest corner of Second. 57
Walnut street, southeast corner of Fourth. Double. 51
Walnut street, southwest corner of Seventh. Post. 38
Wamsutta street, south side, west of Front 200 feet. Post. 65
Wamsutta street, south side, west of Front 372 feet. Post. 65
Wamsutta street, south side, east of Acushnet av. 285 ft. Double. 64
Ward street, west side, 62 feet south of Bay. Post. 46
Washburn street, southeast corner of Acushnet avenue. 59
Washburn street, south side, west of North Front 228 feet. 59
Washington street, southeast corner of Crapo. 58
Washington street, south side, west of Orchard 102 feet. 50
Washington street, southeast corner of Dartmouth. 46
Water street, southwest corner of Hillman. 65

Water street, southwest corner of North. Post. 64
Water street, west side, south of North 258 feet. 63
Water street, northwest corner of Middle. Double. 62
Water street, southwest corner of Elm. 60
Water street, west side, north of Centre 46 feet. 50
Water street, west side, north of School 22 feet. 60
Water street, northwest corner of Walnut. 61
Water street, northeast corner of City wharf. 62
Water street, northwest corner of Coffin. 64
Water street, west side, head of Pine. Post. 67
Water street, west side, head of Leonard. Post. 62
Water street, northwest corner of Howland. 64
Water street, northwest corner of Grinnell. 63
Water street, northwest corner of Potomska. Post. 63
Water street, west side, 266 feet south of Potomska. Post. 63
Water street, northwest corner of Rivet. Post. 63
Water street, southwest corner of Blackmer. Post. 63
Water street, northwest corner of Delano. Post. 62
Water street, west side, head of Gifford. Post. 62
Water street, northwest corner of Cove. Post. 62
Water street, southwest corner of Cove. 61
Weld street, southwest corner of State. Post. 43
William street, southwest corner of Bethel. 51
William street, southeast corner of Acushnet avenue. 47
William street, southwest corner of Sixth. Post. 38
William street, southwest corner of Eighth. 26
Willis street, southeast corner of Pleasant. Post. 41
Willis street, southwest corner of State. 32
Willis street, southwest corner of County. Post. 26
Willis street, southwest corner of Cottage. Post. 19
Willis street, south side, west of Cedar 200 feet. 18
Wing street, southwest corner of Fourth. 57
Wing street, southwest corner of Sixth. Post. 57
Winsor street, south side, west of County 455½ feet. Post. 58
Winsor street, south side, 77½ feet east of Crapo. Post. 60

Number of flush hydrants,	207
Number of post hydrants,	270
Total number of hydrants,	477

Location of Reservoirs.

Durfee street, southeast corner of Shawmut avenue.
Linden street, northeast corner of Ashland.
Franklin street, southwest corner of State.
Willis street, northeast corner of State.
Campbell street, west side of Purchase.
Smith street, southeast corner of Cypress.
Pleasant street, between Maxfield and Sycamore.
County street, southeast corner of Maxfield.
Pleasant street, southwest corner of North.
Chestnut street, between Mill and North.
Mill street, southwest corner of Purchase.
High street, near northeast corner of Foster.
Middle street, near southeast corner of Purchase.
Middle street, west of grammar school.
County street, front of M. E. church.
North Second street, northwest corner of William.
City Hall square, west of hall.
Court street, near head of Orchard.
Union street, southwest corner of County.
Union street, southeast corner of Fourth.
School street, northwest corner of Fourth.
South Second street, northwest corner of Walnut.
South Sixth street, northwest corner of Walnut.
Orchard street, east side, below Hawthorn.
Russell street, between County and South Sixth.
Acushnet avenue, southeast corner of Cannon.
Bedford street, southeast corner of Fifth.
South Sixth street, southwest corner of Wing.
Acushnet avenue, southeast corner of Grinnell.
Washington street, northeast corner of Crapo.

Inventory of City Property

IN POSSESSION OF THE FIRE DEPARTMENT AND IN USE JANUARY 1, 1891.

BUILDINGS, APPARATUS, ETC.

7 brick engine houses.
1 wooden engine house.
7 steam fire engines.
1 hand fire engine.
8 hose carriages.
3 sleigh hose reels.
1 hand hose carriage.
3 hook and ladder trucks (1 old).
11,500 feet 2½-inch cotton hose.
28 horses.
250 feet hand hose.
10 pairs double harnesses.
9 single harnesses and 1 lead.
33 horse blankets.
8 horse brushes.
8 curry combs.
7 mane brushes.
5 cards.
30 whips.
6 grain chests.
4 feed troughs.
13 pitchforks.
29 pails.
20 brooms.
3 hoes.
1 rake.
20 shovels.
13 pokers.
18 axes.
3 hatchets.
8 iron bars.
30 halters.
6 sets lead bars.
5 leather buckets.
130 chairs.
3 bureaus.
4 sets hay hooks and blocks.
36 door keys.
15 tables.
13 mirrors.
18 bedsteads.
18 mattresses.
36 pillows.
70 pillow cases.
72 sheets.
36 blankets.
90 towels.
15 bedquilts.
11 bedspreads.
24 carpets.
7 clocks.
2 spare hook and ladder poles.
195 firemen's badges.
7 dust pans.
7 dust brushes.
7 floor brushes.
7 scrub brushes.
2 tube brushes.
7 mops.
7 feather dusters.
72 baskets.
16 wood saws.
6 saw horses.
4 grate patterns.
7 step ladders.
11 settees.
6 American ensigns.
41 lanterns.
7 stoves and pipes.
2 spare engine poles.
5 coal hods.
11 brass hydrant connections.
15 iron hydrant wrenches.
28 discharge pipes.

65 discharge nozzles.
59 leading hose wrenches.
38 engine wrenches.
6 jackscrews and bars.
6 work benches.
7 iron vises.
11 oil cans.
10 oil feeders.
4 waste boxes.
6 connections, 2½ to 4½.
1 connection, 2 to 2½.
18 pump leathers, extra.
5 hose troughs.
13 hose brushes.
5 pipes for hand hose.
14 wrench belts.
10 wheel fenders.
1 iron kettle.
2 copper tanks (1 old).
4 watering pots.
12 grain measures.
1 box castile soap.
7 chamois skins.
5 lbs. sponge.
7 wagons with poles and shafts.
65 coal baskets.
6 sets blocks and falls.
9 hammers.
7 wagon jacks.
28 ladders from 10 to 65 feet.
8 fire hooks and pikes.
2 tube scrapers.
8 ropes (hook and ladder).
3 stands.
12 spittoons.
2 wardrobes.
1 window brush.
1 water cooler.
3 soap dishes.
3 mugs.
6 cold chisels.
4 stable gongs.

SUPPLIES AND MATERIAL ON HAND.

1 waste box.
4 pump leathers, extra.
2 wheel fenders,
5 extra wheels for engines.
1 gate wrench.
11 taps.
4 spare grates. Nos. 1, 2, 4, 5.
1 box fire extinguisher chemicals.
9 fire extinguishers.
1 set horse slings.
1 set sleigh runners.
6 safety valve springs.
5 new couplings, full set.
5 new couplings, half set.
1 grindstone.
1 draw shaver.
1 jack plane.
1 pair rivet cutters.
1 lot patterns for doors, etc.
6 lbs. rubber packing.
1 water test gauge.
2 iron tool boxes.
2 engine heaters.
35 lbs. cotton waste.
3 sets flue tools.
2 cords wood.
20 lbs. cordage.
3 bars harness soap.
10 valve springs.
1 set badge dies.
2 quires emery paper.
3 glass tubes—water gauge.
20 lbs. rock salt.
1 suction strainer.
1 engine spring, No. 3.
2 engine springs, No. 2.
1 tunnel.
1 two-quart measure.
4 tons of hay.
2½ tons of straw.
30 bushels of grain.
4 P. S. ropes.
1 spare steam gauge.
1 set tube expanders.
1 set repairing tools and chest.
1 set relief valve connections.
15 lbs. wash leather.
3 boxes disinfectant.
1 sledge hammer.
1 hand saw.
1 washer cutter.
1 bitstock.
1 pair compasses.
5 brass gauge cocks.
12 new copper tubes.
24 copper rings for leading hose.
1 gate for steamer No. 2.
1 lb. hemp packing.
13 galls. petroleum oil and can.
10 galls. sperm oil and can.
7 galls. neatsfoot oil and can.
119 feet 4½-inch suction, good.
10 sets new hose coupling.
1 spare axle.

1 machine to put couplings on.
45 tons cannel coal.
15 tons of coal for engine house.
5 lbs rotten stone.
5 spring locks, 30 keys.
1 set weighing scales.
3 tube brushes.
50 lbs. common soap.
24 dozen candles.
1 carpet sweeper.

ENGINEER'S OFFICE FURNITURE.

1 carpet.
1 desk.
1 book case.
1 copying press.
1 table.
1 clock.
6 chairs and cushions.
1 swivel chair.
1 marble top sink.
1 gas drop light.
14 framed pictures.
1 looking glass.
1 city map.
6 towels.
1 comb and brush.
1 broom.
1 dust pan and brush.
1 carpet sweeper.
1 small feather duster.
1 stove, with copper pipe.
2 pieces of oil cloth.
1 coal hod and shovel.
2 foot mats.
2 spittoons.

FIRE ALARM TELEGRAPH AND SUPPLIES.

61 alarm boxes.
35 miles of line wire.
9 bell strikers.
8 15-inch gongs.
1 10-inch gong.
11 7-inch gongs.
3 repeaters.
2 switch boards.
1 repeater switch.
1 battery rack.
191 cups in battery.
1 hydrometer.
1 rubber syringe.
1 thermometer.
3 tapper gongs.
13 church door keys.
379 alarm box keys.
1 copper hand basin.
5 screw drivers.
5 pairs cutting pliers.
1 axe.
1 chemical extinguisher.
2 vises and straps.
2 tool belts.
1 pair pole climbers.
3 gimlets.
1 bit and stock.
2 hammers.
1 monkey wrench.
2 iron bars.
2 extension ladders.
2 sets steel letters.
1 small pipe wrench.
5 tin oiler pans, for bell strikers.
2 shovels.
1 posthole spoon.
2 paint brushes.
1 life line.
1 soldering kettle.
1 iron melting pot for zinc.
1 plaster hook.
1 iron ladle.
1 iron mould for zinc.
1 bull's eye lantern.
13 battery cups, spare.
1829 lbs. sulphate of copper.
250 battery zincs.
20 hangers for zinc.
1331 lbs. iron wire.
45 glass insulators.
12 hook insulators.
35 iron brackets.
2 spare poles.
11 alarm box hinges.
1 alarm box magnet.
1 15-inch gong magnet.
6 old leather fire buckets, date 1829.
4 paper alarm registers.
2 Pierce & Griswold registers.
1 iron tackle block for bell striker.

PROTECTING SOCIETY.

20 rubber covers, 8x12.
5 rubber covers, 8x15.
6 squilges.
4 ladders.
1 piano harness.
175 cover hooks.
2 cartridge boxes.
2 steel hammers.
2 screw drivers and sheaths.

REPAIR SHOP.

1 brick shop.
1 portable forge.
1 set pipe dies and taps, from ¼ to 1 inch.
2 pipe cutters.
1 bench and vise.
1 set pipe dies and taps, from 1¼ to 2 inches.
8 bolt taps.
100 lbs. wrenches.
2 sets tube expanders.
6 files.
3 gross screws.
1 set tap wrenches.
1 large monkey wrench.
1 small monkey wrench.
1 hammer.
1 Stillson pipe wrench, 24-inch.
1 Stillson pipe wrench, 12-inch.
1 Stillson pipe wrench, 8-inch.
150 lbs. nails.
3 cold chisels.
12 file handles.

1890 — CITY DOCUMENT No. 6.

ANNUAL REPORT

OF THE

SCHOOL COMMITTEE

OF THE

CITY OF NEW BEDFORD,

TOGETHER WITH THE

Superintendent's Annual Report,

For the Year 1890.

NEW BEDFORD:
MERCURY PUBLISHING COMPANY, PRINTERS TO THE CITY.
1891.

In School Committee,
December 1, 1890.

Voted, That the Secretary of this Committee make the Annual Report.

Report of the Secretary.

By direction of the School Committee, I submit to our fellow-citizens the following Report for the year 1890.

STATISTICS.

POPULATION.

The population of the city (census of 1880) was	26,875
The population of the city (census of 1885) was	33,393
The population of the city (census of 1890) was	40,705

II. SCHOOL CENSUS.

School census, May, 1888 (children between 5 and 15 years of age),	6,208
School census, May, 1890 (children between 5 and 15 years of age),	6,833

SCHOOL CENSUS BY WARDS, 1890.

Ward One,	2,007
Ward Two,	713
Ward Three,	677
Ward Four,	439
Ward Five,	686
Ward Six,	2,311
	6,833

Increase in the number of pupils in the city between the ages of five and fifteen, for two years, 625.

A state law requires the census of children between the ages of five and fifteen to be taken each year during the month of May. Upon this enumeration of children the apportionment of state aid for school purposes is made to cities and towns. The cost of taking this census in New

Bedford is about three hundred dollars a year, for which no monied return is made from the state fund, as cities of the size and valuation of this city are excluded from the apportionment. The city receives, however, under state law, a large sum of money for school purposes each year from the proceeds of the dog tax, and a sum can well be spared each year from the dog fund for the school census.

This census has been taken in the city with all the care possible, and undoubtedly the returns are quite accurate. The shifting character of a certain portion of the population, and the different nationalities represented, make it, however, a difficult matter to enumerate the children with absolute accuracy. The figures, therefore, represent rather less than more of the actual number of children of the enumerated ages who are in the city, although the actual number belonging in the schools shows an increase that corresponds very closely to the increase shown by the census.

III. SCHOOLS.

High,	1
Training,	1
Grammar,	4
Primary,	12
Country,	5
Mill,	2
Farm,	1
Total,	26

IV. SCHOOL BUILDINGS.

Number buildings owned by the city,	25

ROOMS USED FOR SCHOOL PURPOSES (DAY SCHOOLS), INCLUDING HALLS AND RECITATION ROOMS.

High,	17
Training,	9
Grammar,	38
Primary,	57

Mill,	4
Country,	7
Rooms unoccupied,	9
Total,	141
Rooms used for both day and evening schools,	20
Rooms used for evening drawing schools,	3
Total,	23

V. SEATS.

Number seats occupied:	
High,	343
Grammar,	1,465
Primary,	2,477
Training,	287
Mill,	112
Country,	219
Total,	4,903

VI. TEACHERS.

Whole number in service December 19, 1890:	
High school,	14
Training school,	15
Grammar schools,	41
Primary schools,	52
Country schools,	7
Mill schools,	4
Special teachers,	5
Temporary assistants,	2
Evening schools,	48
Total,	188

VII. PUPILS. DAY SCHOOLS, 1890.

Whole number pupils enrolled of all ages,	5,853
Average number pupils belonging,	4,609
Average daily attendance,	4,100
Per cent. of attendance,	89
Number of half-days' absence,	193,316
Number cases of tardiness,	14,287
Number cases of dismissal,	15,239

Number cases truancy reported by teachers,	244
Number cases of corporal punishment,	1,222
Half-days' absence of teachers,	1,498
Number cases tardiness by teachers,	147
Number visits made the schools by Superintendent,	481
Number visits made the schools by Committee,	693
Number visits made the schools by parents and others,	2,810

EVENING SCHOOLS.

	Boys.	Girls.	
Whole number pupils enrolled,	1,263	730	1,993
Average number belonging,			900
Average nightly attendance,			653
Per cent. of attendance,			73
Total nights' absence,			18,606
Number cases of tardiness,			2,972
Number visits made by Committee,			95

EVENING DRAWING SCHOOL (Fall term).

	Boys.	Girls.	
Whole number pupils enrolled,	69	15	84
Average number belonging,			64
Average nightly attendance,			57
Per cent. of attendance,			89
Total nights' absence,			200
Number visits made by Superintendent,			1
Number visits made by Committee,			3

PRIVATE SCHOOLS.

	Boys.	Girls.	
Whole number enrolled during year,	960	1,101	2,061
Average number belonging during year,			1,722
Average daily attendance,			1,478
Per cent. of attendance,			86

The enrollment of pupils in the schools exceeds that of any other period in their history, notwithstanding the withdrawal of large numbers into parochial schools during the past few years. The whole number returned for the year was 5,853, an increase of 157; the average number belonging, 4,609, an increase of 389; the average daily attendance, 4,100, an increase of 175. The ratio of atten-

dance to average number belonging was but 89 per cent., in comparison with 93 per cent. of the preceding year. This decrease in per cent. of attendance is largely attributable to the epidemic of la grippe in the months of January and February, and of measles in certain districts later in the year.

The statistics for the private and parochial schools are furnished by the courtesy of those in charge of those various institutions in the city. Although the returns may not be accurate in all cases, especially in regard to the enrollment, they approximate closely, without doubt, the attendance upon those schools.

COST OF INSTRUCTION PER SCHOLAR.

It has been the custom in all previous Reports to give under this head the cost based upon the average number belonging to each school, and the amount expended for hire of teachers, for fuel, care of school houses, books, and supplies, except those furnished from the income of the Howland fund, the term "care of school houses" including only the salaries of janitors. I shall make that part of the Report as usual, but shall also give the cost, by departments, of each pupil, based on the average number belonging and the total sums expended for the maintenance of each department during the year. This last computation will be the basis upon which tuition of non-resident pupils will be collected.

Table 1. This table is computed, as in former Reports, on the items classified above.

The cost of maintenance of each scholar in the High school for the year has been	$48.94
Grammar schools:	
Fifth street,	24.63
Middle street,	23.80

Parker street,	$22.06
Thompson street,	19.59
Harrington Training school,	20.23
Primary schools:	
Acushnet avenue,	15.92
Cedar street,	15.42
Cedar Grove street,	16.52
Dartmouth street,	21.23
Fourth street,	14.35
Grove,	12.06
Linden street,	17.82
Merrimac street,	19.80
Maxfield street,	19.24
Thompson street,	14.76
William street,	20.23
Cannonville,	18.43
Country schools:	
Acushnet,	29.97
Clark's Point,	22.36
North,	20.43
Plainville,	33.24
Rockdale,	19.71
Mill schools,	
North mill,	32.22
South mill,	27.61
Evening schools:	
Cedar Grove street,	8.16
Central (2 months),	7.95
Fifth street,	6.07
Merrimac street,	9.62
Parker street,	11.72
Evening drawing,	19.79
The average cost of maintenance of a	
Grammar school pupil,	$22.89
Primary school pupil,	17.06
Country school pupil,	25.87
Mill school pupil,	29.93
Evening school pupil,	7.89
Evening drawing school pupil,	19.79

Table 2. Tuition table, based on total expenditures for each department.

High school,	$50.63
Grammar schools,	25.31
Primary schools,	20.52
Country schools,	29.07
Mill schools,	30.97
Evening elementary schools,	9.07
Evening drawing school,	23.97
Average cost for a day school pupil,	$24.63
Average cost for an evening school pupil, including drawing school,	9.72

EXPENDITURES.

RECEIPTS.

Annual and special appropriations:		
For Teachers' salaries,	$84,000.00	
Incidentals (including text-books and supplies),	32,000.00	
Repairs of buildings (including Da tmouth street furnishing; ventilation at Fourth street; heating apparatus and plumbing at Merrimac street; curbing school yard at Middle street),	8,750.00	$124,750.00

PAYMENTS.

For Teachers' salaries,	$83,902.26	
Incidentals (including text-books and supplies),	31,287.39	
Repairs of buildings (including Dartmouth street furnishings; ventilation at Fourth street; heating apparatus, plumbing, and heating apparatus at Merrimac street; curbing school yard at Middle street),	8,749.00	123,938.65
Balance,		$811.95

DOG FUND.

Balance, January 1, 1890,	$2,026.78	
Received, February, 1890,	1,268.56	$3,295.34
Expenditures,		656.10
Balance,		$2,639.24

Received from non-resident pupils,	$817.49	
Received from sale of sundry articles,	20.75	$838.24

The amount received for tuition of non-resident pupils, $817.49, and the amount received for books, etc., sold, $20.75, have been paid to the City Treasurer, and placed to the credit of unappropriated funds. There seems to be no valid reason why the money received each year by the school department for items as stated above, should be placed to the account of unappropriated funds, while other departments are credited with the amounts they receive from various sources, except the fact that a city ordinance so provides.

The whole amount expended for the year 1890 exceeded that for 1889 by $6,030.48, distributed as follows:

Pay of teachers,	$2,002.26	
Repairs, ventilation, and furnishings of new school house,	4,028.22	$6,030.48

It is not because the salaries of teachers have been raised to any extent that the salary account appears larger. A few salaries only have been raised, notably in the High school. The increase is due to the employment of a few more teachers in the regular corps to care for the increase of the number of pupils. An examination of the schedule of teachers employed December 25, 1890, shows less names on the pay rolls than a year before; but owing to the fact that more regular and less special teachers are employed, the aggregate of the pay-roll is larger.

The other large item of increased expenditure is the repair account. This has been caused by the attempt of the Committee to improve the heating and ventilating in several school houses, and in furnishing new rooms opened during the year. The ordinary expenditures in this account have not been much larger than usual.

It is evident that the sum total of expenditures in the city for school purposes must increase from year to year,

if the school population grows, even if other conditions remain the same. But the latter is not a fixed quantity. The state is continually enacting statutes which add to school expenses,—for example, the recent laws relating to ventilation and compulsory attendance in day and evening schools.

New Bedford does not pay extremely high salaries to her teachers. In fact, the rate of wages in the elementary schools here are lower than those of many New England cities of her wealth. The average cost per pupil is less than many cities that offer no higher advantages in their schools. By the state report of last year New Bedford ranks 277 in a list of 351 cities and towns in relation to the percentage of taxable property appropriated for school purposes.

A wise administration of any kind of business is not usually a niggardly one. A true economy consists in a judicious outlay that brings adequate returns. It is the prerogative of the children who attend the schools that they shall be provided with healthful surroundings and such as shall in some measure stimulate their sense of the true and beautiful; that they shall be provided with such instruction as will develop their latent powers in a manner to fit them to cope successfully with the world under its present conditions. That this may be accomplished, buildings properly situated, suitably lighted, heated, ventilated, and furnished are required; able teachers also must be employed, and such can be had and retained only by paying good salaries.

The cost of educating a child in the schools to-day is greater than it was even twenty years ago. It is fitting that it should be so. The world is demanding more of people in every sphere of life than ever before, and the schools are trying to meet this demand. The school department is administered, however, with the same careful oversight that has always distinguished it.

SYLVIA ANN HOWLAND EDUCATIONAL FUND.

Balance of income on hand, Jan. 1, 1890,		$1,408.14
Interest for the year,		3,000.00
Total credit,		$4,408.14
Expenditures for the year,		4,013.75
Balance on hand, Jan. 1, 1891,		$394.39
Cost of books and supplies during the year 1890,	$4,013.75	
Cost of books and supplies in stock, January 1, 1890,	98.23	$4,111.98
Cost of books and supplies charged to schools, 1890,	$3,997.77	
Cost of books and supplies in stock, January 1, 1891,	114.21	$4,111.98

Disbursements to the several schools and otherwise are as follows:

High school,	$354.36
Fifth street grammar school,	418.33
Middle " " "	297.79
Parker " " "	601.17
Thompson street grammar school,	226.01
Harrington Training school,	633.79
Thompson street primary school,	70.27
Linden " " "	35.91
Merrimac " " "	48.04
Maxfield " " "	30.79
Cedar " " "	46.66
Acushnet avenue " "	36.81
William street " "	42.93
Fourth " " "	62.74
Dartmouth street " "	58.06
Grove " "	10.13
Cedar Grove street " "	57.60
Cannonville " "	47.66
Acushnet "	187.89
North "	29.41
Clark's Point "	48.03
Rockdale "	52.47
Plainville "	37.02
North mill "	2.87
South " "	8.81
Farm "	5.81

Express and freight,	$60.71	
Periodicals,	53.81	
Pedagogical library,	48.85	
Covering books,	120.26	
Care of musical instruments,	236.25	
Sewing materials,	6.14	
Object supplies,	20.39	
Stock on hand, January 1, 1891,	114.21	$4,111.98

The appropriations from the income of this fund have been applied to the same general purposes as in previous years. There have been some extraordinary expenses, however, which have reduced the balance to be carried to another year to a smaller figure than usual. These unusual expenses consisted in the amount paid for a grand piano for the Harrington Training school, and the amounts paid for furnishing several rooms opened during the year with wall maps, globes, and similar apparatus.

An important change was made during the year in relation to the supplementary reading, which is purchased entirely from this fund. Lists of books suitable for such reading were prepared by the Superintendent and committees appointed from the teachers. These lists were presented to the sub-committees of the School Committee having the departments in charge, and were approved by them. All books for supplementary reading must now be selected from these lists, and thereby a better class of books is being placed in the schools than formerly.

The Howland fund is of incalculable benefit to our schools. Illustrative apparatus, reference books, and a variety of reading matter through its agency are placed at the disposal of the teachers, enabling them to give life and vigor to their instruction, and to broaden its scope. It is also used to supply the schools with pictures for the walls, musical instruments, and other things whereby the æsthetic tastes are cultivated. If the curriculum should

be extended so as to include any other forms of manual training than are now attached to it, or to include scientific physical training for the pupils, this fund will afford peculiar advantages by which such additional instruction may be made successful.

DETAILED STATEMENT.

OUTLAY BY THE SCHOOL COMMITTEE FROM THE INCOME OF THE SYLVIA ANN HOWLAND FUND, FROM JANUARY 1, 1890, TO JANUARY 1, 1891.

BOOKS AND PERIODICALS.

American Book Company,	$206.25	
Appleton, D. & Co.,	2.38	
Boston School Supply Co.,	86.44	
Bradley, Milton & Co.,	2.86	
Barnes, A. S. & Co.,	1.87	
Bay State Pub. Co.,	1.60	
Educational Pub. Co.,	124.75	
Educator, The,	3.00	
Faunce, Charles L.,	6.00	
Ginn & Company,	187.47	
Hutchinson, H. S. & Co.,	651.23	
Heath, D. C. & Co.,	228.46	
Houghton, Mifflin & Co.,	20.57	
Harper & Bros.,	3.24	
Kellogg, E. L. & Co.,	28.50	
Knowlton, D. H. & Co.,	6.00	
Lee & Shepard,	163.49	
Lippincott, J. B. & Co.,	20.90	
Leach, Shewell & Sanborn,	3.67	
Mason, Perry & Co.,	131.09	
New England Publishing Co.,	7.50	
School Herald Publishing Co.,	26.50	
Small, Willard,	16.88	
Silver, Burdett & Co.,	13.54	
Stockin, A. C.,	3.89	
Schoenhof, Carl,	7.84	
University Publishing Co.,	24.63	
Wakefield, N. S. & Co.,	6.75	
Ware, Wm. & Co.,	8.00	$1,995.30

PEDAGOGICAL LIBRARY.

Appleton, D. & Co.,	$1.10	
Educational Publishing Co.,	1.50	
Ginn & Company,	.63	
Lee & Shepard,	1.82	
Maynard, Effingham & Company,	.84	
Small, Willard,	42.96	$48.85

MUSIC DEPARTMENT.

Boden, E., Jr., piano,	$475.00	
Ditson, Oliver & Company, pitch pipes,	25.03	
Peirce, George, care of organs and pianos,	236.25	
Silver, Burdett & Co., music books,	112.53	848.81

DRAWING DEPARTMENT.

Bradley, Milton & Co., drawing paper,	$7.20	
Hayes, N. P., scissors,	5.00	
Prang Educational Co., drawing models,	22.00	
Perry, George S., drawing models, scissors,	25.00	59.20

SEWING DEPARTMENT.

Bliss & Nye, hamper,	$2.75	
Haskell & Tripp, sewing materials,	6.14	8.89

BINDING AND COVERING BOOKS.

Bates, Olivia, covering books,	$21.45	
Holden Book Cover Co., book covers,	34.72	
Hatch, William E., cash paid for covering books,	2.40	
Kane, D. J. & Bro., binding books,	66.90	
Lawton, Louise, covering books,	19.60	
Merrick, Emma J., covering books,	21.45	
Perry, George S., covering paper and mucilage,	82.75	
Potter, Frances, covering books,	2.15	
Taber, Alice, covering books,	7.30	258.72

PRIMARY DEPARTMENT.

Anthony, E. & Sons, reward cards,	$5.00	
Boston School Supply Co., Grubé cards,	14.00	
Bliss & Nye, stone jars,	2.25	

Bradley, Milton & Co., object supplies,	$11.12	
Dews, Edwin, language pictures,	2.00	
Educational Pub. Co., object supplies,	.80	
Hammett, J. L., object supplies,	56.19	
Hutchinson, H. S. & Co., twine,	1.75	
Haskins, E. P., repairing chart,	.25	
Perry, Geo. S., object supplies,	32.68	
Tompkins, I. B., Jr., object supplies,	2.15	$128.19

CYCLOSTYLE SUPPLIES.

George H. Richter,		25.53

APPARATUS.

Adams, Charles F., camera, views, and frame,	$31.45	
Bliss, George H., apparatus,	2.10	
Denham, E. F. B., stencils,	1.60	
Eimer & Amend, chemical apparatus,	.70	
Ginn & Company, globes,	41.20	
Haskins, E. P., fractional frames,	15.00	
Hammett, J. L., globe,	6.00	
Pierce & Sowle, cotton line,	.10	
Richter, George H. & Co., neostyles,	54.40	
Ritchie, E. S. & Sons, physical apparatus,	10.64	
Richards, George D., measures,	9.15	
Roberts & Fellows, camera slides,	19.20	
Sullings, Kingman & Co., supplies,	6.55	
Sherman, C. R. & Sons, supplies,	1.80	199.89

EXPRESS AND FREIGHT.

Gardner, T. M.,	$18.10	
Gray, Charles A.,	6.70	
Hatch & Co.,	31.10	
O. C. R. R. Co.,	1.76	
U. S. Express Co.,	2.55	60.21

MISCELLANEOUS.

Boston School Supply Co., charts and easels,	$25.00	
Bay State Publishing Co., reference maps,	56.00	
Barnes, A. S. & Co., map drawing blanks,	.39	
Heath, D. C. & Co., outline maps,	22.58	
Hayes, N. P., scissors,	3.50	

Kellogg, E. L. & Co., map stencils,	$1.20	
Lumbard, Anna M., pictures,	3.38	
McFarlin, James, moving piano,	6.00	
Prang Educational Co., historical charts,	7.60	
Pierce & Bushnell, framing pictures,	12.97	
Silver, Burdett & Co., maps,	95.70	
Western Publishing Co., geographical charts,	145.84	$380.16
		$4,013.75

TEXT-BOOKS AND SUPPLIES.

STATEMENT.

Cost of books and supplies purchased during 1890,	$4,651.20	
Cost of books and supplies in stock, January 1, 1890,	778.64	$5,429.84
Cost of books and supplies charged to schools in 1890,	$4,195.36	
Cost of books and supplies in stock, January 1, 1891,	1,226.05	
Cash receipts from sale of books and supplies,	8.43	$5,429.84

The cost of books and supplies furnished the several schools in detail for the year 1890 is as follows:

	Books.	Supplies.
High school,	$211.86	$390.31
Fifth street grammar school,	220.93	266.66
Middle street " "	252.35	186.36
Parker street " "	464.20	214.41
Thompson st. " "	211.18	100.29
Harrington Training "	112.25	103.48
Acushnet avenue primary school,	35.62	69.15
Cedar street " "	20.95	48.30
Cedar Grove street " "	12.92	51.58
Cannonville " "	13.31	15.42
Dartmouth street " "	36.03	55.51
Fourth street " "	13.17	65.12
Grove " "	19.98	31.87
Linden street " "	27.48	25.85
Merrimac street " "	6.80	35.14
Maxfield street " "	7.80	41.20
Thompson street " "	17.80	47.45
William street " "	5.59	37.46
North mill "	15.79	11.40

South mill	school,	$15.57	$9.79
Acushnet	"	52.00	27.02
Clark's Point	"	20.21	13.41
North	"	25.40	11.03
Plainville	"	10.07	7.70
Rockdale	"	25.31	29.76
Cedar Grove street evening	"	38.97	23.72
Parker street "	"	18.82	10.35
Fifth street "	"	42.17	8.95
Merrimac street "	"	3.75	4.70
Central "	"	2.43	1.34
Evening drawing	"		258.96
Farm	"	.73	12.31
Office Superintendent of Schools,		8.32	9.60
		$1,969.76	$2,225.60

The average cost per pupil in the different departments of the schools for books and supplies has been as follows:

High school,	$1.81
Grammar schools,	1.30
Primary schools,	.39
Country schools,	1.08
Mill schools,	.69
Average for day schools,	.816
" evening elementary schools,	.17
" evening drawing schools,	4.04

While many states are still wrestling with the "free text-book question," in Massachusetts there seems to be a feeling which is well nigh universal that it has proven beneficial to the schools to have the books and supplies furnished free to the pupils.

With no restriction placed upon the teachers as to supplies, except the general one that there shall be no waste, the cost of books and supplies during the past year averages but $0.81 per pupil; in the evening elementary schools, $0.17. The large cost per pupil in the evening drawing school, $4.04, was due to the purchase of a number of sets of fine drawing instruments. These will last many years, and this fact should be considered in estimating

the cost; also the fact that the sum total expended for this school was not large, although the rate per pupil is, as the cost is figured on a small number of pupils.

While it is true that the application of the "free text-book law" has been successful in Massachusetts, it is especially true in respect to the following: 1. The economy of cost, that is, the low cost per pupil at which the cities and towns are able to furnish the books and supplies to the pupils compared with what it formerly cost the parents. 2. The economy of time which comes from the schools being supplied promptly with the materials for work. New Bedford, however, does not furnish a fair example of the working of the law. By having the Howland fund to draw upon we are enabled to be very generous in the matter of books and supplies and yet keep the cost of those furnished from the regular appropriation down to a low figure.

Admitting that the law is successful in its operation does not affect the principle that is involved. The tendency towards paternal legislation on the part of the state has its dangers. The claim that was made by the friends of the "free text-book law," when advocating its passage, that the pupils would take better care of the books as property of the city than as the property of their own, has not proven true. They seem to take it as a matter of course that books and supplies should be furnished free. It is only by constant watchfulness on the part of the teachers and the other school authorities that serious loss is prevented. Parents should impress upon their children their duty in caring for all school property, and should coöperate most heartily with the school authorities in their efforts to preserve it.

Respectfully submitted for the several committees.

WM. E. HATCH,
Secretary.

In School Committee,
December 29, 1890.

On motion of Capt. Howland:

Voted unanimously, That the thanks of this Board be and are hereby tendered to His Honor, Mayor Walter Clifford, for the dignity, urbanity, and impartiality that has ever characterized his acts as chairman of this Committee. In vacating the chair that he has so honorably filled, this Committee begs to assure him that its best wishes go with him, and it trusts that all his future endeavors may be crowned with success.

On motion of Mr. Washburn:

Voted unanimously, That the thanks of this Board are hereby tendered to Mr. Pitman, the Vice-Chairman of this Committee, for the faithful, courteous, and efficient manner in which he has performed the duties of his office.

On motion of Mr. Hillman:

Voted unanimously, That the thanks of this Committee are hereby tendered the Secretary for the efficient and agreeable manner in which he has performed the duties of his office.

On motion of Mr. Tompkins:

Voted unanimously, That we desire to express our regret that we are to lose the services of so many old members, men who have been conspicuous for their faithful labor, and whose uniform courtesy and kindness has endeared them to us. We wish them in their retirement that rest that comes from a consciousness of having carefully performed the tasks that were imposed upon them.

The retiring members were Messrs. Washburn, Eldridge, Hillman, and Haskins.

NEW BEDFORD HIGH SCHOOL GRADUATION EXERCISES, JUNE 27, 1890.

PRAYER.

1. SONG, "The Watch by the Rhine." (*Carl Wilhelm.*)
2. SALUTATORY ADDRESS, William H. Atwood.
3. BOURNE PRIZE ESSAY, "The Tournament," Harriet N. Hyatt.

MUSIC.

4. PART SONG, FOR FEMALE VOICES, "Loveliest Violet." (*Carl Reinecke.*)
5. ORATION. "Lincoln at Gettysburg," Andrew M. Bush, Jr.
6. CLASS HISTORY, Annie C. Ricketson.

MUSIC.

7. CHORUS, "Hark the Vesper Hymn." (*Sir John Stephenson.*)
8. PRESENTATION OF DIPLOMAS, by his Honor, Mayor Clifford.

MUSIC.

9. PARTING SONG, Class of '90.
10. VALEDICTORY ADDRESS, "Substance versus Shadow," Lottie M. Allen.

PARTING SONG.

WORDS BY HELEN L. BONNEY. MUSIC BY GEORGE W. NEEDHAM.

Time, on thy pinions light speeding,
  Winging along thy swift flight,
Thou, who thy children art leading,
  Bid'st us leave school days so bright.
School ties we now sadly sever,
Leave scenes familiar forever,
Yet we'll forget them, ah! never;
  Memory will hold them for aye.

Passing one more of life's stages,
  Close we the book of the past;
Turning to fair open pages,
  Bound in a future so vast.
Both from its gladness and sorrow,
Strength for life's task we may borrow;
Making the joy of to-morrow
  Illumine the gloom of to-day.

God's hand forever is guiding
  Through light and shadowy ways;
May His sweet presence abiding,
  Bless all our dim future days.
Forth into life we are going;
Hope's star before us is glowing,
On us true courage bestowing.
  Yet '90 sings sadly "Farewell."

GRADUATES.

No steps backward.

Arthur Stone Ashley,
William Henry Atwood,
Everett Clifton Brennand,
Andrew Marcellus Bush, Jr.,
Charles Marshall Cunliffe,
William Frederick Dammon,
Charles Prescott Emerson,
Daniel Taber Hillman,
Leonard Clifton Lapham,
Harry Topham Macomber,
James Stowe Macomber,
George William Needham,
George Everett Noble,
Thomas Joseph Rogers,
Frederick Slocum,
Lottie May Allen,
Kate Josepha Bartlett,
Irene Mayhew Bassett,
Jennie Clarke Bates,
Laura Moulton Benjamin,
Helen Lucretia Bonney,
Lizzie Maria Briggs,
Grace Allen Caswell,
Annabelle Chubbuck,
Harriet Love Cornell,
Hattie Seabury Davis,
Ethel Washburn Denham,
Dora Amanda DeWolf,
Florence Ella Forbes,
Julia Crocker Gifford,
Lillie Ann Heap,
Elizabeth Heppenstall,
Helen Curtis Hervey,
Berta Naomi Holcomb,
Blanche Russell Howland,
Julia Arnold Hunt,
Harriet Newton Hyatt,
Sarah Elizabeth Kelley,
Isadore Brown Lee,
Martha Jane Lee,
Ida May Lewis,
Sadie Lowe,
Annie Clapp Milliken,
Caroline Bradford Nye,
Helen Augusta Parker,
Rosalie Parlow,
May Annette Parsons,
Ruth Emma Pease,
Julia Mason Pilling,
Medora Livingstone Poole,
Alice Maria Purrington,
Bertha Dickinson Reed,
Anna Collins Ricketson,
Fannie Matthews Spooner,
May Eleventh Stetson,
Edna Foster Tobey,
Gertie Evelyn Tripp,
Ruth May Tripp,
Carrie Frances Washburn.

RECIPIENTS OF CERTIFICATES.

Alice Gertrude Anthony,
Gertrude Alice Smith.

NEW BEDFORD PUBLIC SCHOOLS.

RATES OF TUITION FOR NON-RESIDENT PUPILS, 1891.

	First Term.	Second Term.	Third Term.	For the Year.
High school,	$17.71	$12.67	$20.25	$50.63
Grammar schools,	8.85	6.33	10.13	25.31
Primary schools,	7.18	5.14	8.20	20.52
Ungraded schools,	10.17	7.29	11.61	29.07
Evening drawing school,				23.97

Tuition is payable in advance either at the office of the Superintendent of Schools, or at the schools where the pupils attend. All bills will be sent from the office of the Superintendent of Schools.

RULES GOVERNING TEACHERS' SALARIES.

The maximum salaries for the various grades are as follows:

Principals of grammar schools,	$1,800 to $2,000
" primary "	600
Assistants in grammar schools,	550
" primary "	500

The salary of a Primary School Principal of a four-room building is $550 per year, which is increased at the rate of twenty-five dollars for each additional room. The salaries of assistant teachers in the grammar and primary grades are increased at the rate of twenty-five dollars per year until the maximum salary is reached.

High school Principal,	$2,750
" " Sub-Master,	1,600
" " Teacher of Sciences,	1,500
" " Lady Assistants,	900
Training school Principal,	1,300
" " Assistant,	700
Ungraded schools,	400 to 700
Supervisor of Drawing in primary and grammar schools,	1,200
Teacher of Drawing in High school,	550
Supervisor of Music,	1,700
Teacher of Sewing,	525
Assistants,	270

DEPARTMENT OF PUBLIC SCHOOLS.

BRIEF DESCRIPTION OF THE SCHOOL HOUSES, WITH THEIR ACCOMMODATIONS AND CONDITIONS.

	SCHOOLS.	Material.	No. of Stories.	No. of School Rooms.	No. of Recitation Rooms.	No. of Assembly Halls.	No. of Seats.	CONDITION.
1	Acushnet avenue,	Brick,	3	6			313	Good.
2	Acushnet,	Wood,	2	3			114	New.
3	Cedar street,	Wood,	2	6			221	Good.
4	Cedar Grove street,	Brick,	3	8			296	Good.
5	Cannonville,	Wood,	2	2			68	Fair.
6	Clark's Point,	Wood,	1	1			30	Fair.
7	Dartmouth street,	Wood,	2	6			287	New.
8	Fifth street,	Brick,	3	10		1	480	Good.
9	Fourth street,	Wood,	2	6			260	Fair.
10	Farm,	Wood,	1	1				Fair.
11	Grove,	Wood,	2	4			196	Poor.
12	High school,	Brick,	3	9	7	1	343	Good.
13	Harrington Memorial,	Brick,	3	9		1	385	New.
14	High street,	Wood,	2	2				Old and poor; not used.
15	Kempton street,	Wood,	2	4				Old and poor; not used.
16	Linden street,	Wood,	2	4			200	Old and fair.
17	Middle street,	Brick,	3	9		1	376	Good.
18	Merrimac street,	Brick,	2	6			184	Good.
19	Maxfield street,	Brick,	2	14			203	Good.
20	North,	Wood,	1	1			42	Good.
21	Parker street,	Brick,	3	12		1	636	Good.
22	Plainville,	Wood,	1	1			28	Fair.
23	Rockdale,	Wood,	1	2			55	Fair.
24	Thompson street,	Brick,	3	11			483	New.
25	William street,	Wood,	2	4			174	Old and poor.

DEPARTMENT OF PUBLIC SCHOOLS, NEW BEDFORD, MASS.

Report for the Year Beginning January 6, 1890, Ending December 19, 1890.

	NAME OF SCHOOL.	Total Enrollment for year.	Average No. Belonging.	Average Daily Attendance.	Per Cent. of Attendance.	Total Half Days' Absence.	No. Cases of Tardiness.	No. Cases of Dismissal.	No. Cases of Truancy.	No. Cases of Corporal Punishment.	Half Days Teachers were Absent.	Times Teachers were Tardy.	No. Visits by Superintend't.	No. Visits by Members Committee.	No. Visits by Parents and Others.
1	High,	477	332.2	315.7	.95	3,301	501	1,492			121	63	23	102	1,000
2	Fifth st. grammar,	452	407	377	.926	11,818	1,355	1,353	21	78	66	17	73	89	234
3	Middle st. grammar,	425	361.4	328.6	.911	12,925	1,223	879	22	136	48	9	44	68	160
4	Parker st. grammar,	643	517.9	471.8	.917	17,430	2,013	1,219	23	65	115	13	51	43	208
5	Thompson st. grammar,	262	187.2	167.8	.89	7,349	238	287	7	93	16	5	35	34	110
6	Harrington Training,	313	292	254	.87	15,500	1,736	596	3	83	390		53	105	589
7	Acushnet av. primary,	316	272	237	.87	13,660	582	276	16	50	35	3	26	16	68
8	Cedar st. primary,	241	218.6	193.6	.89	9,376	361	331	9	30	222	5	14	7	28
9	Cedar Grove st. primary,	301	199.6	171.8	.86	10,666	255	1,750	15	23	22	1	23	15	29
10	Cannonville primary,	74	67.3	56.8	.844	3,915	354	151	1	10	12	3	4	6	5
11	Dartmouth st. primary,	231	206	182	.88	8,719	346	467	14	92	43		30	31	73
12	Fourth st. primary,	307	258	222	.86	11,920	873	481	21	101	27	4	17	27	46
13	Grove primary,	385	245	214	.88	12,170	1,282	3,249	9	97	7		8		4
14	Linden st. primary,	171	147	131	.90	5,983	461	478	14	24	9	2	7	21	9
15	Merrimac st. primary,	138	110	96	.88	5,139	169	210	2	11	10		10	26	35
16	Maxfield st. primary,	198	166	146.4	.88	7,620	569	454	8	138	194		8	14	102
17	Thompson st. primary,	261	209	176	.84	13,117	509	880	7	70	88	6	19	33	14
18	William st. primary,	141	132.5	118.4	.88	6,052	422	80	3	28		1	8	12	24
19	Acushnet,	104	91	77	.84	5,467	333	96	3	14	54	3	9	12	39
20	Clark's Point,	41	26.2	21.6	.83	1,760	119	113	3	14	3	3	3		11
21	North,	39	33	30	.90	1,009	66	35		2	2	3	1	1	6
22	Rockdale,	43	36.8	30.6	.82	2,551	101	37	3	1	5	2	3	2	8
23	Plainville,	18	17.4	14.7	.85	1,087	134	49	6	16			3	5	1
24	North mill,	126	36	32	.89	2,316	243	94	30	20	1	4	5	15	
25	South mill,	146	40	34	.85	2,466	42	182	4	26	8		4	9	7
	Grand totals,	5853	4609.1	4099.8	.889	193,315	14,287	15,239	244	1,222	1,498	147	481	693	2,810

CALENDAR, 1891.

Winter term begins January 5, 1891; ends April 10, 1891.
Summer term begins April 20, 1891; ends June 26, 1891.
Fall term begins September 8, 1891; ends December 24, 1891.

VACATIONS.

April 11, 1891, to April 19, 1891, inclusive.

June 27, 1891, to September 7, 1891, inclusive.

From Wednesday noon before Thanksgiving, the remainder of the week.

December 25, 1891, to January 11, 1892.

HOLIDAYS.

Every Saturday; Washington's Birthday, or the day following when that occurs on Sunday; Memorial Day; Labor Day; all National and State Fast Days.

SCHOOL SESSIONS.

From March 1, to November 1, 9 A. M. to 11.30 A. M., and 2 P. M. to 4 P. M., in the grammar schools. 9 A. M. to 12 M., and 2 P. M. to 4 P. M., in the primary schools. From November 1 to March 1, the afternoon sessions in the grammar and primary schools are from 1.30 o'clock to 3.30 o'clock.

High school sessions are from 8.30 A. M. to 1.30 P. M., throughout the year.

SCHOOL BOARD—1890.

WALTER CLIFFORD, Mayor, Chairman, *ex-officio.*

WILLIAM H. PITMAN, Vice-Chairman.

WILLIAM E. HATCH, Secretary and Superintendent.

WILLIAM A. TUCKER, President of Common Council, *ex-officio.*

WARD 1—Anna R. Borden, John H. Lowe, George W. Hillman.

WARD 2—Thomas Mack, Isaac B. Tompkins, Jr., Elmore P. Haskins.

WARD 3—Isaac W. Benjamin, Helen W. Webster, William H. Pitman.

WARD 4—George H. Dunbar, George H. Batchelor, John Eldridge, Jr.

WARD 5—Fred A. Bradford, Jonathan Howland, Jr., Frederic A. Washburn.

WARD 6—Thomas Donaghy, Jr., Betsey B. Winslow, Francis M. Kennedy.

STANDING COMMITTEES.

WILLIAM E. HATCH, Secretary.

ON HIGH SCHOOL—Eldridge, Washburn, Howland, Dunbar, Benjamin, Miss Winslow, Mrs. Webster, Mrs. Borden.

ON GRAMMAR SCHOOLS—Tompkins, Washburn, Pitman, Howland, Mrs. Webster, Haskins, Mrs. Borden, Bradford.

ON PRIMARY SCHOOLS—Benjamin, Pitman, Tompkins, Dunbar, Miss Winslow, Mrs. Borden, Kennedy, Batchelor.

ON COUNTRY SCHOOLS—Haskins, Hillman, Kennedy, Lowe, Donaghy, Mack.

ON TRAINING SCHOOL—Dunbar, Pitman, Tompkins, Benjamin, Eldridge, Washburn, Kennedy.

ON FARM SCHOOL—Kennedy, Washburn, Haskins, Hillman, Donaghy, Bradford.

ON MILL SCHOOLS—Mrs. Borden, Howland, Hillman, Mrs. Webster, Lowe, Bradford, Donaghy.

ON EVENING SCHOOLS—Hillman, Haskins, Kennedy, Lowe, Batchelor, Mack, Donaghy.

ON MUSIC—Washburn, Pitman, Haskins, Bradford, Batchelor.

ON DRAWING—Mrs. Webster, Eldridge, Donaghy, Dunbar, Mack, Lowe, Miss Winslow.

ON SEWING—Miss Winslow, Mrs. Webster, Mrs. Borden, Batchelor.

ON EXAMINATION OF TEACHERS—Eldridge, Dunbar, Tompkins, Benjamin, Washburn, Haskins, Hillman, Miss Winslow, Mrs. Borden, Mrs. Webster.

ON TEXT-BOOKS—Pitman, Washburn, Hillman, Mrs. Borden, Kennedy, Batchelor, Mack.

ON EXPENDITURES—Howland, Benjamin, Pitman, Tompkins, Eldridge, Dunbar, Haskins, Lowe, Tucker.

ON HOWLAND FUND—Howland, Benjamin, Eldridge, Tompkins, Dunbar, Kennedy, Bradford, Tucker.

ON PAY-ROLLS—Tompkins, Howland, Mack.

SCHOOL BOARD — 1891.

CHARLES S. ASHLEY, Mayor, Chairman, *ex-officio*.

WILLIAM H. PITMAN, Vice-Chairman.

WILLIAM E. HATCH, Secretary and Superintendent.
Office, 133 William Street.
Office Hours, 8½ to 9 A. M., 12½ to 1 P. M. Saturdays, 9 to 9½ A. M.

JOSEPH DAWSON, President of Common Council, *ex-officio*.
Regular Meetings of the Board, first Monday of each month, at 7.30 P. M.

WARD ONE.

Name.	*Place of Business.*	*Residence.*
ELIZABETH W. STANTON,		Mt. Pleasant.
ANNA R. BORDEN,		Ashland, cor. Austin st.
JOHN H. LOWE,	925 Acushnet avenue,	931 Acushnet avenue.

WARD TWO.

FRANK A. MILLIKEN,	43 William street,	290 Pleasant street.
THOMAS MACK,	20 Bedford street,	248 Cedar street.
ISAAC B. TOMPKINS, JR.,	78 Union street,	691 County street.

WARD THREE.

WILLIAM H. PITMAN,	Five Cents Savings Bank,	60 Chestnut street.
ISAAC W. BENJAMIN,	N. B. Cordage Co.'s office,	50 Hill street.
HELEN W. WEBSTER,	111 Fourth street,	111 Fourth street.

WARD FOUR.

SETH W. GODFREY,		17 Bethel street.
GEORGE H. DUNBAR,		179 William street.
GEORGE H. BATCHELOR,	Institution for Savings,	187 Cottage street.

WARD FIVE.

WILLIAM L. SAYER,	Mercury office,	76 So Sixth street.
FRED. A. BRADFORD,	Journal office,	342 Union street.
JONATHAN HOWLAND, JR.,		54 Russell street.

WARD SIX.

FRANCIS M. KENNEDY,	Eddy Building,	139 Acushnet avenue.
THOMAS DONAGHY, JR.,	64 Union street,	103 Acushnet avenue.
BETSEY B. WINSLOW,		315 County street.

EMMA M. ALMY, Superintendent's Clerk.

HENRY SMITH, Truant Officer, 372 Cottage street.
Office Hours, 12½ to 1 P. M. Saturdays, 9 to 9½ A. M.
GEORGE K. DAMMON, Assistant Truant Officer.

STANDING COMMITTEES.

WILLIAM E. HATCH, Secretary.

ON HIGH SCHOOL—Dunbar, Howland, Benjamin, Miss Winslow, Mrs. Webster, Mrs. Borden, Mrs. Stanton, Pitman, Tompkins.

ON GRAMMAR SCHOOLS—Tompkins, Pitman, Howland, Mrs. Webster, Bradford, Mrs. Borden, Lowe, Sayer, Milliken.

ON PRIMARY SCHOOLS—Benjamin, Pitman, Tompkins, Dunbar, Miss Winslow, Mrs. Stanton, Kennedy, Batchelor.

ON COUNTRY SCHOOLS—Lowe, Donaghy, Mack, Batchelor, Mrs. Stanton, Godfrey.

ON TRAINING SCHOOL—Pitman, Mrs. Stanton, Kennedy, Mrs. Borden, Batchelor, Milliken, Sayer.

ON FARM SCHOOL—Donaghy, Kennedy, Bradford, Godfrey, Sayer, Milliken.

ON MILL SCHOOLS—Mrs. Borden, Howland, Lowe, Donaghy, Mrs. Webster, Bradford, Godfrey.

ON EVENING SCHOOLS—Kennedy, Lowe, Mack, Donaghy, Batchelor, Godfrey, Milliken.

ON MUSIC—Bradford, Pitman, Batchelor, Sayer, Milliken, Godfrey.

ON DRAWING—Mrs. Webster, Miss Winslow, Donaghy, Dunbar, Mack, Godfrey, Sayer.

ON SEWING—Miss Winslow, Mrs. Webster, Mrs. Borden, Mrs. Stanton.

ON EXAMINATION OF TEACHERS—Dunbar, Tompkins, Lowe, Donaghy, Kennedy, Mrs. Webster, Benjamin, Miss Winslow, Mrs. Borden, Bradford, Mrs. Stanton.

ON TEXT-BOOKS—Pitman, Kennedy, Mack, Batchelor, Milliken, Sayer.

ON EXPENDITURES—Howland, Benjamin, Tompkins, Pitman, Bradford, Mack, Lowe, Donaghy, Dawson.

ON HOWLAND FUND—Howland, Benjamin, Tompkins, Dunbar, Pitman, Bradford, Kennedy, Dawson.

ON PAY-ROLLS—Tompkins, Howland, Mack.

In Memoriam.

One member of the Board was removed by death during the year, — Mrs. Etta F. Martin, a member from ward four. Mrs. Martin had served but a few months on the Board, but had long been known to its members as a sincere and consistent friend of the public schools.

Mr. Eldridge, a member of the Board from the same ward, reported to the Board the death of his colleague. A committee was appointed to represent the Board at the funeral, and another to draft resolutions and report to the Board.

The latter committee presented the following resolutions to the Board, and they were unanimously adopted by a rising vote:

Whereas, Death has removed from this Board an esteemed member, Mrs. Etta F. Martin, therefore

Resolved, That in the brief association which she had with this Board, she gained its highest esteem and confidence, and

Resolved, That in her death the Board feels that it has lost a wise counselor, the schools a sincere friend, and the public a devoted servant.

Resolved, That this Board extends its sympathy to the friends of the deceased in their affliction, and especially to the bereaved husband and daughter in their great sorrow.

Resolved, That these resolutions be spread upon the records of this Board, that a copy be sent to the family of the deceased, and that one be sent to each of the daily papers of the city.

ANNUAL REPORT

OF THE

SUPERINTENDENT OF SCHOOLS,

FOR THE YEAR 1890.

SUPERINTENDENT'S REPORT.

Ladies and Gentlemen of the School Committee:

I have the honor of submitting to you my third annual Report of the schools of the city, which is the thirtieth of the series of annual Reports of the Superintendent of Schools.

Not many important changes are to be noted. The year has been free from any special agitation in the administration of the schools. The work has progressed most auspiciously, interrupted only by the epidemic of la grippe, which prevailed for a few weeks at the beginning of the year, and by the resignations of several teachers for various causes. The records in all the departments, high, elementary, and evening, show the largest enrollment hitherto known in the history of the schools; the course of instruction has been unified in several particulars; the methods of teaching and governing give evidence of improvement, and the conditions are good for future progress.

But along just what lines the future progress of the schools is to be worked out is, in a measure, yet to be determined. The educational world is rife with projects by which the coming generation is to be benefited. There may be those who feel that they are on solid ground; there certainly are many who do not. The conservatives cling to the old curriculum and think it sufficient, while those who are more progressive feel that it needs modifi-

cation. They would add manual training in its different forms; they would have the physical training of the pupils placed on a scientific basis: they would have more time given to the study of natural sciences in the elementary grades; they would magnify art instruction throughout the whole course. In addition to these branches, which are being urged for a more general recognition in the school curriculum by many of the leading minds in educational matters, other subjects are thrust forward for recognition by less thoughtful advocates, who appear to regard the school as the only educating force of society and seem to think that it has no limitations.

To deal with the problems that confront those in charge of the schools of to-day, there is need, then, not only of wisdom in administration, but there is also required calm, patient investigation by them. This means self-denial and sacrifice on their part. The school committees of this city have always been noted for the time and thought that they have given to the duties of their office. I am confident that I shall not appeal to you in vain when I ask of you to give your earnest attention the ensuing year to the questions now pressing for consideration, that the schools under your charge may not suffer, either by clinging too long to that which is not the best, or by adopting unadvisedly something which is new.

SCHOOL BUILDINGS AND GROUNDS.

The school accommodations of the city are constantly being enlarged and improved, both by the erection of new buildings and by alterations of the old ones when practicable and feasible. The city government has met the wishes of the School Committee in regard to school buildings with a most liberal and progressive spirit. One would scarcely recognize in the new Dartmouth street and Acushnet school houses any features that characterized

those they replaced. Both were completed last spring and have been occupied since. The former is a six-room building, the latter is one of three. Both are attractive within and without; they are well lighted, and the heating and ventilating arrangements are fairly acceptable. I can see no reason why they should not be healthful and serve well the purposes for which they were built.

In answer to your request for a new building to supplant the one occupied by the Grove school in the south part of the city, one of brick, and containing ten rooms and hall, has been built, and will be ready for occupancy by the first of April next. It is to be heated and ventilated in accordance with one of the most approved methods known to modern architecture. It will furnish relief to the overcrowded schools in that section, besides allowing the abandonment of the Grove school house, which long ago was considered unfit for school purposes.

In all probability a four-room brick building will be built on the Kempton street lot the coming year. If this is done the pupils who now attend the William street school will be transferred to the new building, and the William street school house abandoned. This is much to be desired; for the last mentioned building is neither large enough to accommodate the children who should attend it, nor suitable, for many reasons, for school use.

Much money has been spent on the Fourth street school house within a year to improve the heating and ventilation. This building of six rooms was formerly heated by stoves, and ventilated only by the windows. Hot air furnaces have superseded the stoves, and ventilating flues heated by gas jets have been placed in the different rooms to carry off the vitiated air. But notwithstanding all that has been done, the results, so far as the ventilation is concerned, are still unsatisfactory.

The usual amount of minor repairs and improvements

have been made, and the buildings are in a very good condition throughout the city.

There are two suggestions that I desire to offer in this connection before closing. The first is, that those school yards that are muddy in wet weather (and certainly we have much of that kind of weather here) be covered with a coat of powdered stone. If this were done, it would prove beneficial to the health of the children, and would lighten the labors of the janitors and teachers.

The second suggestion is, that some of the school houses, at least, be re-named, and that each new school house be given a more appropriate name than that of the street upon which it happens to be located.

THE ATTENDANCE OF PUPILS.

While the total enrollment and the average membership of pupils in the schools were larger for the year than ever before, the attendance in some respects was not satisfactory. There were too many cases of tardiness and dismissal; there certainly was an extreme number of absences. It is true that special causes contributed to affect the last; it is also true that the percentage of absence reported from many cities was abnormally large for the year, due probably to the epidemic of disease that passed over the country in the early part of the year.

There is food for reflection, however, when the number of absences that occurred in our schools for the year is considered, if due allowance is made for those that occurred by reason of sickness. With an average membership of 4,609 pupils, there were 96,658 days of absence. This is 20.9 days, or a fraction over a school-month, of absence for every pupil belonging. It seems to me this is a serious matter. Some pupils are absent but little, and a few not at all; some are absent continually for one excuse and another.

The causes of absence may be classified under the following heads: 1. Sickness. 2. Necessary home demands. 3. Truancy. 4. Want of appreciation by many parents of their duty in respect to the schools. I do not enumerate as one of the causes of absence, indifference of the teachers to the attendance of their pupils, for I am confident that every reasonable effort is made by them to secure regular and punctual attendance.

In analyzing these causes of absence the questions that arise are: First, how much sickness among the pupils is traceable to the condition of the school houses and surroundings? second, how much is due to neglect on the part of the teachers? third, how much of it may be attributed to other causes? For the first two the school authorities are directly responsible, and where unhealthful conditions exist, or there is neglect, should do all in their power to remedy them. Is this being done? In reply to the questions raised, I will say that I have no doubt that many cases of sickness have their origin in the conditions incident to the school room; some of these are preventable, some are not. With all the care that can be exercised (and I think due precaution is taken in our schools to prevent the communication of disease), the collecting of many children together day after day must necessarily cause more or less infection. On the other hand, I have no doubt that more or less sickness is caused by improperly heated and ventilated school houses, and from the condition at times of certain school yards. These conditions can be remedied and are being improved constantly.

Some cases of sickness are probably due to the lack of proper oversight by the teachers of their pupils. The teacher stands *in loco parentis* in more senses than that of authority. He becomes, during school hours, the guardian of each pupil's physical as well as mental and moral well-being. The wise parent teaches his child not to go

from a heated room into the chill of the winter air without being properly protected; he teaches him to avoid sitting in draughts of air, to keep his feet warm and dry, and, in short, aims to inculcate simple hygienic laws, and, so far as he is able, sees to it that these laws are observed by his child. To give attention to these matters and enforce them with every child under his charge, is the duty of each teacher. I fear that a judicious watchfulness is not observed by all of them in the exercise of their duties.

For absence caused by "necessary home demands" there is no remedy. A parent most assuredly has the right to detain his child from school occasionally when he has need of his services. With that right I will not cavil, although there is no question that a little self-denial on the part of parents, in many cases, would reduce greatly the cases of absence for this reason. For truancy the home is largely responsible; but not entirely. The teacher of power and tact has few truants. For the last cause of absence, "the want of appreciation, by many parents, of their duty in respect to the schools," I shall allow some one else to find excuse. This is the source of the unnecessary absences: there are a great many due to this cause. It is the one most annoying to the teacher, the one most injurious to the schools; for it stimulates and fosters wrong principles in the minds of the pupils.

To inspire in the pupils a spirit of obedience to lawful authority, and to fix in them habits which are the growth of duty well performed each day, are the highest functions of the public school. That the teachers may be able the better to inculcate this spirit, and to form their habits, cordial support ought to be rendered them by those whose interest in the children should be stronger than that of any teacher.

TRUANCY.

As long as schools exist there will undoubtedly be truants. The ratio will vary with the conditions that surround the schools, and the homes from which the pupils come. But even with the best of schools and good homes, the child nature will occasionally rebel against the confinement and duties of the school room, and will seek enjoyment out of its confines. But when a good teacher fails to check a pupil inclined to truancy, the facts are that either that pupil is abnormally inclined to evil or comes from a home which is a home but in name. Truancy thrives best, then, in those places where there are many homes in which the children by reason of the ignorance, poverty, or vices of their parents are neglected; therefore large cities usually have the greatest ratio of truants.

There was less truancy in the schools last year than the year before, although the number of pupils enrolled was larger. The number of cases reported for the year 1890 was 244; for the year 1889, 249. The efficient service of the truant officers is to be commended. A detailed statement of the labors of each is appended.

TRUANT OFFICER'S REPORT.

Schools visited,	1,287
Absences reported by teachers,	455
Absences without permission of parents,	72
Second offences,	32
Third offences,	21
Parents notified,	554
Arrests,	13
Prosecutions,	13
Tardinesses investigated,	16
On probation,	2
Sentenced to truant school,	15
Taken to school from street,	25
Visits to mills,	58
Violations of labor law,	17

ASSISTANT TRUANT OFFICER'S REPORT.

Boys interviewed on streets,	23
Schools visited,	222
Mills and mercantile establishments visited,	664
Cases of absences investigated,	298
Violations of labor law,	5

THE LAWS RELATING TO THE EMPLOYMENT OF CHILDREN AND THEIR ATTENDANCE UPON SCHOOL.

In my Report last year I gave a complete summary of the laws relating to the employment of children and their attendance at school. Since the writing of that article these laws have been still further amended. Chapter 47 of the Public Statutes now reads as follows:

SECT. 1. Every person having under his control a child between the ages of eight and fourteen years, shall annually cause such child to attend some public day school in the city or town in which he resides; and such attendance shall continue for at least *thirty* weeks of the school year, if the schools are kept open that length of time, with an allowance of two weeks' time for absence not excused by the Superintendent of Schools or the School Committee, and for every neglect of such duty the person offending shall, upon the complaint of the School Committee or any truant officer, forfeit to the use of the public schools of such city or town a sum not exceeding twenty dollars; but if such child has attended for a like period of time a private day school, approved by the School Committee of such city or town, or if such child has been otherwise instructed for a like period of time in the branches of learning required by law to be taught in the public schools, or has already acquired the branches of learning required by law to be taught in the public schools, or if his physical or mental condition is such as to render such attendance inexpedient or impracticable, such penalties shall not be incurred.

SECT. 2. For the purposes of the preceding section, School Committees shall approve a private school only when the teaching in all the studies required by law is in the English language, and when they are satisfied that such teaching equals in thoroughness and efficiency the teaching in the public schools in the same locality, and that equal progress is made by the pupils therein, in the studies required by law, with that made during the same time in the public schools; but they shall not refuse to approve a private school on account of the religious teaching therein.

The most important change in the law is the one by which the compulsory attendance each year of children under fourteen has been raised from twenty to thirty weeks. The effect is plainly perceptible in the increased attendance at the mill schools, of which I will speak in connection with those schools.

Another act passed since my last Report was issued, is as follows:

ACTS OF 1890. CHAP. 299.

AN ACT

IN RELATION TO THE AGE AND SCHOOLING CERTIFICATES OF CHILDREN EMPLOYED IN FACTORIES, WORKSHOPS, AND MERCANTILE ESTABLISHMENTS.

SECT. 1. The following words shall appear on all age and schooling certificates enumerated in section four of chapter three hundred forty-eight of the acts of the year eighteen hundred eighty-eight, after the name of the town or city, and date:—This certificate belongs to the person in whose behalf it has been drawn, and it shall be surrendered to him (or her) whenever he (or she) leaves the service of the corporation or employer holding the same; and any such corporation or employer refusing to so deliver the same shall be punished by a fine of ten dollars.

SECT. 2. Any corporation or employer holding any age or schooling certificate enumerated in section four of chapter three hundred forty-eight of the acts of the year eighteen hundred eighty-eight, and refusing to deliver the same to the person in whose behalf it has been drawn, when such person shall leave the employ of said corporation or employer, shall be punished by a fine of ten dollars.

Manufacturing cities are affected to a greater extent by all this labor legislation than any others. Over twenty-five hundred labor certificates have been issued from my office within a period of less than three years. Every change in these laws adds more or less to the duties of my department. While I am not disposed to find fault with legislation that seeks to uplift humanity, I cannot suppress the feeling that some of the recent legislation in this state relating to school attendance is causing much individual hardship without producing corresponding benefit.

TEACHERS AND CHANGES IN THE CORPS.

For various reasons many changes have occurred in the teaching force during the year. It is not desirable that changes in it should be frequent, and cases of forced resignation are not of common occurrence in ours. This fact should give it stability, and should be a factor in securing from each individual composing it his best efforts. No tenure of office act is needed to give permanency to any teacher's position here, provided he is qualified to fill it and performs his duty faithfully. And in making this observation I do not place myself in opposition to the "tenure of office law," but, so far as its operation is concerned, its adoption here would appear superfluous. This feeling may not be shared by the teachers, and it may be that many good ones of sensitive disposition undergo at election time each year a strain that may be prejudicial to their health and teaching. It seems to me that a rule of the Board which has long been in operation reaches the vital object of the "tenure of office act," which is, that the services of no teacher shall be dispensed with except for good cause, reasons for which shall be given. The rule reads as follows:

> At least three months before the annual election of teachers, the sub-committee of each department of the schools shall meet (the Superintendent being present), and carefully consider the merits of each teacher belonging to such department; and if occasion shall be found for adverse criticism of any teacher, official notice shall be given to such teacher forthwith, the facts in question being specified as far as possible, that there may be opportunity for amendment.
>
> During the week prior to election, the sub-committee shall again meet for the same purpose; and if demerit in any case shall still remain, such case shall be reported to the Board.

When vacancies have occurred the Board has filled them with candidates residing in the city, if there were those available who, in its judgment, were qualified; if there were not, candidates were sought for elsewhere.

The vacancies occurring in the High school were filled by advancing teachers from the grammar schools. The special teacher of music, chosen to fill the vacancy caused by the resignation of Mr. Diman, who had so faithfully and efficiently supervised the musical instruction in our schools for some years, was invited here from Washington, D. C., where he was holding a similar position. Mr. Arthur J. Cumming, whose ability as an artist had evidenced itself during his long connection with the schools, resigned his position as teacher in the High schools at the close of the summer term; his place was filled by the election of Miss Florence A. Cleaves, a graduate of the four-years course in the Boston Normal Art School, and a teacher of some experience. Miss Adelaide B. Hyde, supervisor of drawing in the primary, grammar, and country schools, was granted leave of absence for the fall term on account of illness. Not finding the relief that she had hoped to gain by a long rest, she resigned her position at the close of the term. Miss Hyde had charge of this department of the work but one year; she accomplished, however, much in that time, proving herself a competent supervisor of teachers and instructor of children. Had she been able to continue her work here a few years, the drawing in our lower schools would have ranked with the best. Miss Blanche I. George, who succeeds her, is a graduate of the four-years course in the Boston Normal Art School, and has had successful experience, both as teacher and supervisor in places near Boston.

The vacancies in the other departments were filled either by teachers of successful experience or by graduates of the Training school; and it may be well to remark here that all the graduates of this school, to date, are teaching in the city.

Two of the resignations in the grammar department

deserve more than a passing notice. Miss Eliza J. D. Shepherd, who resigned from the Parker street school, had taught in the schools of the city fifty consecutive years; Miss Helen M. Gordon, who resigned from the same school, had taught forty-three years. They both filled their positions to the last with remarkable efficiency. Such cases are rare; and it would be no more than simple justice if all teachers who have served for forty years should be retired on half pay. In appreciation of the services of these teachers the Board unanimously adopted the following resolutions:

Resolved, That it is with sincere regret that we part with Miss Shepherd and Miss Gordon, as teachers in our public schools. Their long record has been one of faithful, painstaking service, and we hope they will reap a merited reward in their retirement. It is certain they carry with them, not only our good wishes, but also those of the pupils whom they have so carefully labored to advance in educational matters, and all can say that they have fairly earned the plaudit, "Well done, good and faithful servants."

A list of the resignations from the corps and the appointments to the same for the year, are as follows:

RESIGNATIONS.

Emma H. Wheeler, High school.
Sarah W. Almy, Fifth street grammar school.
Sarah A. Carr, Fifth street grammar school.
Elizabeth P. Brightman, Fifth street grammar school.
Helen M. Gordon, Parker street grammar school.
Eliza J. D. Shepherd, Parker street grammar school.
Emma C. Nash, Parker street grammar school.
Chella F. Carpenter, Thompson street grammar school.
Ida G. Howard, Fourth street primary school.
Annie B. Parker, Clark's Point school.
Mary Chace, Plainville school.
Arthur J. Cumming, High school, drawing.
Adelaide B. Hyde, elementary schools, drawing.
Fred L. Diman, singing.

TRANSFERS.

Helen L. Hadley, from Fifth street to High.
Hattie F. Hart, from Middle street to Fifth street.
Mabel W. Cleaveland, from Middle street to High.

APPOINTMENTS. PERMANENT.

Florence A. Cleaves, High school, drawing.
Etta M. Abbott, Middle street grammar.
H. Jennie Kirby, Parker street grammar.
Anna I. Dexter, Parker street grammar.
Cora B. Cleaveland, Thompson street grammar.
Leonora B. Hamblin, Thompson street grammar.
Annie F. Smith, Dartmouth street primary.
Alice A. Taylor, Fourth street primary.
Myra A. Leach, Fourth street primary.
Annie L. Brownell, Thompson street primary.
Mary E. Haney, Plainville country school.
Blanche I. George, supervisor of drawing.
F. H. Butterfield, supervisor of music.

TEMPORARY ASSIGNMENTS.

Blanche W. Sheldon, Fifth street grammar.
Rachel L. Denham, Acushnet avenue primary.
Mary E. Pasho, Maxfield street primary.

PRIMARY SCHOOLS.

The average membership of pupils attending these schools during the year was 2,523. This is fifty-five per cent. of the year's membership in all the schools.

These figures show that the primary grades in the city proper, comprising the first four years of school life only, contained more pupils for the year than were in the grammar schools, the country schools, the mill schools, and the High school combined; and this proportion holds true for each year. This fact alone indicates their relative importance in the school system, for it shows that many children get their whole schooling in the primary grades. But their chief claim for consideration is, that the time

during which the children are in them is an especially formative period in their lives. The majority of pupils who attend them are from five to eleven years of age; there are some who are older, consisting of children who are either foreign-born or who have had few early advantages.

To teach this heterogeneous class of children with their different dispositions to conduct themselves properly in their relations to the school and each other, and at the same time train them to think and to reason, as well as to acquire knowledge, is not within the power of a novice. Amos Comenius, the great educator, in speaking of this matter, and the different dispositions with which teachers had to deal, classifies them as follows:

"1. There are children who are ingenious, anxious to learn, tractable, and suited above all for students; these require only an offer of food for wisdom; they grow like rare plants. Care is needed, in fact, to prevent any overexertion on their part, which is too often followed by weariness and disgust. 2. Others are penetrating and slow, but withal tractable; these need only to be spurred on. 3. There are children who are penetrating and studious, but stubborn and obstinate; they are generally hated in schools, and one is inclined to give them up; yet these generally grow to be the greatest men, if they are correctly trained. 4. There are obedient and studious children who are, however, slow and difficult of comprehension. These must follow in the tracks of the former; and that this may be possible, we must stoop to their level, we must not place too heavy burdens upon them, nor judge them harshly, but must bear with them willingly, raise them, encourage them, cheer them, that they may take heart. They may reach the goal later, but will endure longer, as late fruits generally do. 5. Some are dull, troublesome, and lazy. These can also be improved, but there must be no obstinacy, and much skill and patience

are required. 6. There are dull ones who are by nature ill-willed, wrong-headed and generally spoiled. Even here we should not lose hope at first. If it is, however, impossible to improve them, they should be left alone."

The child nature has not changed since Comenius lived and wrote.

I realize that this subject of the relative importance of the primary schools has been dwelt upon at length in previous Reports. I again bring it forward because I find the feeling still extant here, that an inferior order of ability will answer in a teacher of a primary grade, especially in the lowest. I can see no reason why it should exist anywhere, except one, that children in the primary grades do not easily recognize the weakness of teachers, especially in the matter of discipline. For this reason the teacher with weak powers of government escapes criticism longer in a primary than in a grammar grade. While I am ready to admit that it requires a different order of ability to make a successful teacher in the higher grades, no more superior order is needed there than in the lower, if permanent, and not superficial, results are contemplated. It is unquestionably true that many a pupil's whole school course has been injured through faulty teaching to which he was subjected at the beginning. Let the foundation be firm if the superstructure is to endure; this truth pertains with the same force to the realm of thought as to the material world.

This department is in good condition, and has had a successful year; it has elements of weakness, however, which I presume must be expected. The teachers are earnest and interested in their work. By the study of educational literature, by visiting their co-workers in other cities, and by other means, they are constantly striving to improve themselves and their schools. But while all may be equally earnest in their efforts, some are contending against disadvantages. These are the lack of natural apti-

tude for teaching, or of training for their work, or both. Difference in ability must be expected in those who choose the teaching profession, as well as in those who choose any other; but one who elects the profession of teaching having no love for children and possessing but little ability to govern others, makes a greater mistake than the person who attempts to be a painter, possessing no power to draw, no eye for color, no gift of imagination. Those who are laboring at disadvantage by want of special training for their work, can remedy this by study and observation; in the meanwhile those who sit under their teaching must suffer. The employment of untrained teachers has characterized the policy here no more than in many other places in this country, and the growth of the normal and the training schools is but a reaction against the folly of such a course.

The order in many rooms is excellent, and in others unsatisfactory. Good order is the result of good government, and the latter has its source in the judicious application of force and reason. It is true that whippings have been less frequent (a thing in itself commendable), but the results sought for in discipline are not yet attained in these grades as a whole. Neither much whipping nor the entire absence of it produces good discipline and order in a school. The power to whip when necessary is the teacher's prerogative, but, as I have said before, neither the constant application of this power, nor the refusal to use it will necessarily secure good order. Vigilance, firmness without harshness, tact in dealing with issues, and discrimination in applying punishment — these are the means upon which the wise teacher will rely for government, and not upon any set forms of punishment. Charges of favoritism and injustice made by children against teachers, frequently have foundation, although those against whom they are made may feel entirely uncon-

scious of having shown either. They come from such teachers having no uniformity in their methods of governing; they punish certain actions as faults one day that they ignore another; they are spasmodic in the treatment of breaches of discipline, and yet wonder why their pupils are so troublesome. Without good order in a school, there is not only waste of time, but habits are engendered in the pupils, the consequence of which cannot be computed.

The number of pupils to a teacher, computed on the average membership, is about forty-five, and computed on the average daily attendance is forty or less. These numbers represent the minimum number of pupils that are assigned to a teacher in the most progressive cities. The amount of work demanded by the curriculum is less than in the majority of other cities. If these facts are taken into consideration with the other, that no city in the Union supplies better facilities for work (due to the income from the Sylvia Ann Howland fund), there seems to be no reason why these schools should not occupy the foremost place, at least in the quality of the work done. They do rank well, and with the strength that is being given them by supplying all vacancies in the teaching force with trained teachers, they will improve. I would not imply that it is only through the addition of these trained teachers that the schools are to be improved, or to have it inferred that most of the present teachers are not capable. But the custom has prevailed here of offering the vacancies occurring in the grammar grades to successful teachers in the primary grades, and many of them, for the sake of the higher salary or other reasons, have accepted; the positions in the primary grades were then filled, in many instances, with untrained teachers. This course has necessarily tended to weaken the primary grades, for while the new teachers were getting their experience, the schools

suffered, and experience only does not always supply the deficiency of special training. Just as long as it is considered a promotion to serve in a grammar grade rather than in a primary, and a difference in salary exists, this disturbing influence must continue.

GRAMMAR SCHOOLS.

These schools had an average membership for the year of 1,473 pupils, or thirty-two per cent. of the average membership of all the different departments of the day schools. About fifty per cent. of pupils who enter the grammar schools remain in them; only between fifty and sixty per cent. of these enter the High school. As only fifteen per cent. of those who enter the schools remain in them long enough to reach the High school, and only about five per cent. graduate, it is obvious that the great majority of our citizens, even under the strict laws of Massachusetts, complete their school education in the elementary schools.

How important it is, then, that they have paramount consideration in school affairs. Is it true that they receive it? Should not the same discrimination be exercised in selecting teachers for them as for high schools, and salaries paid that bear a higher ratio to those paid in high schools?

The record of this department for the year is uneventful, so far as innovations and radical changes tend to make it so. The teachers have tried to govern without resorting frequently to corporal punishment, and have succeeded in reducing the number of cases. Some have felt, however, that the expression of opinion regarding corporal punishment has awakened a spirit of defiance in many pupils. I fail to understand why this should be so, for there has been no attempt to take the power of administering it from the teachers, nor is there any desire to do so. It is only desired to keep it within reason. There are few cities

where it prevails to a greater extent than it does here even now, notwithstanding the large reduction in number that has already been made. Excellent order is secured in schools with but very little whipping, and it can be done anywhere if there is a healthy public sentiment supporting them. What I have said under the head of primary schools about government, applies with equal force to these grades. Many issues can be avoided in the school room by the exercise of vigilance and tact by the teacher. It appears to me that it is better, as a rule, with grammar pupils, when reasoning fails to secure obedience, to notify their parents, and if this does not have the desired effect, to suspend them until they can obey, rather than to whip much. Printed forms, approved by the Committee, are now furnished teachers for this purpose. A few cases of suspension occurred in the year. In most instances the remedy cured the complaint. In nearly every case the parents coöperated with the school authorities, and this was sufficient to produce the desired results.

The instruction has been intelligent and effective as a whole. Certainly the teachers have striven to secure good results. They have been urged to make their teaching as objective as possible, and to try to awaken in the pupils a spirit of inquiry and research. Not all have been able, as yet, to emancipate themselves from the methods established by the prevailing customs of the past. There is yet too much of the pouring-in process extant, and not enough developing of the powers of the pupils. A machine can be filled with facts, to be taken out on the "nickel in the slot" plan; so can the pupils be crammed with facts to be drawn out at will by the teacher, but such teaching should not characterize the work in the schools, nor is there any excuse for it here. The teachers are left as free as possible, so far as the teaching itself is concerned, and yet have unity in the work. The studies are prescribed and the limit-

ations set, but no examinations for promotion are given by the Committee or Superintendent. Why, then, should not the best results be obtained, especially if it is true, as has been repeatedly claimed by teachers everywhere both in private and in public, that one of the chief preventatives to good work in the past was the prevailing custom of basing promotions on examinations given by committees or superintendents?

Again, it appears to me that the principle so much emphasized in recent years, namely, that pupils must learn to do by doing, is somewhat misinterpreted and misapplied. I refer to the direction it is taking in written work. There is too much of it. Before the principles underlying the subject being studied are sufficiently developed, it is often the case that the pupils are set to work with slates or paper to exemplify them. It is true of the schools here as it is elsewhere. Teachers, as a rule, are too impatient to see visible results; and yet, when these are unsatisfactory, are apt to be disturbed, and frequently blame the pupils when they are not at fault; they haven't understood what is wanted of them.

Written work has its function, and an important one, in the school room; but, except in teaching a few branches, it should be used for drill, or a means by which the pupils express the knowledge that they have acquired. In short, it is a method of fixing and cultivating knowledge, not of implanting it. Therefore, in arithmetic, the oral and mental (so called) work should be given more prominence. Every new principle enunciated to a class should be most thoroughly explained, the language in which it is clothed analyzed and interpreted, and thorough oral drill should precede the written application; in geography, written work is either an examination on facts or a language exercise, and as such has its usefulness, but is not to be substituted for that teaching by which the world,

its phenomena, its products, and its inhabitants become to the pupils the visible and tangible things that they are. And so on with other studies the arguments might be multiplied. I have been led to speak of this written work in the schools because I have been unfavorably impressed, in my visits, with the amount of it that is done, and the results obtained. I could not but feel, often, that the teachers were reaping where they had not sown.

The teaching of elementary science is important, and should receive more attention in our lower schools. What is now done is desultory, and varies much in the different schools. There is no established course in it. When rightly conducted, there is no study that appeals more strongly to young pupils. It is well calculated to develop their powers of observation and comparison. It can be taught to advantage in connection with other branches, especially geography and language.

The "visiting days," inaugurated over a year ago, have proven successful. Many parents and others interested in the schools have been drawn into them on these days. The regular work of the curriculum is carried out, these days differing from others only in the fact that visitors are specially invited and provision made for them to see as much of the methods of teaching and the results obtained as possible. Between seven and eight hundred visitors are recorded as visiting these grades last year, exclusive of visits made by the Superintendent and Committee. Nothing is more desired by those in charge of the schools than to have our citizens possess an intimate knowledge of the work done in them; to see for themselves the methods employed, and the results obtained; to realize by personal observation the difficulties that are to be encountered in handling large numbers of pupils, and to better comprehend the reason why certain things which may appear to outsiders unnecessary are done, and why others which

they feel ought to be done are not done. While advice and candid criticism, based on intelligent study and observation of the schools, is welcome and will prove helpful in improving them, covert attacks made upon them, based upon isolated cases of apparent or even real wrong, are not just, do no good, but, on the contrary, are exceedingly harmful.

COUNTRY SCHOOLS.

There remain now but five schools classified as Country schools. The Cannonville school having become a strictly primary school was transferred to that department in September. But four of these are ungraded: the Clark's Point, the Plainville, the Rockdale, and the North; the Acushnet school is graded with three grades in each room.

Two teachers resigned from these schools during the year; the one at Plainville in June, and the one at Clark's Point in December. It is difficult to secure good teachers for the ungraded Country schools who are willing to serve in them for any length of time. Occasionally it happens that a good teacher resides in the neighborhood of one of these schools (as in the case of the North school at present), whose services can be secured and retained. But in most instances the teachers are compelled to board in the vicinity or to pay for transportation. In either case, they are put to extra expense and to much inconvenience. As the pay is no larger than that of teachers in the more favored portions, the successful ones are constantly seeking transfers to more desirable places. In addition to the inconvenience and expense to which this class of teachers is subjected, their work is laborious and exacting. Sometimes one of these schools has the whole nine grades in it, which includes pupils from the lowest primary to those fitting for the High school. It requires more than ordi-

nary ability to make one of these schools efficient, and this ought to be recognized in some substantial manner.

Again, those who are forced to send their children to these schools are certainly entitled to the very best teaching for them. The school represents far more to both the children and parents in suburban settlements than in the urban. In order, therefore, to make this teaching most effective, something must be done to attract strong teachers to these positions, and to retain them there. This, I think, could be accomplished by paying larger salaries in them than in any other positions in the elementary schools. This I would recommend to be done.

An effort was made, more than a year since, to give the teachers of these schools more assistance in the subjects of drawing and music than they had previously received: but the work was interrupted by the resignations of the special teachers in these branches. Arrangements have already been made, however, with the new teachers in these subjects to continue this instruction.

With the exception of one school, the work done in them was quite satisfactory. If thorough, trained teachers could be secured for all of them, there is no reason why their work should not compare favorably with the best done in the graded schools of the city proper.

The Acushnet school is now as well housed as any in the city. Through the improved facilities for administering the school, and the efforts made by the teachers to improve the teaching, its efficiency has been much increased.

MILL SCHOOLS.

The law that was passed by the legislature a year ago requiring thirty weeks of schooling from each child until he is fourteen, instead of twenty, as heretofore, combined with some local causes, has increased the attendance on

these schools very materially. Although the membership for the whole year does not vary greatly from that of the preceding year, it is due to the fact that the law did not begin to be effective until the fall term. There are now twice as many pupils in these schools as there were a year ago.

The large attendance now necessitates the employment of an additional teacher in each school. Both schools are now cramped for room, but relief is soon to be provided. The completion of the Division street school will relieve the one in the south part of the city, and two additional rooms are to be built in the attic of the Cedar Grove school to accommodate the north school. The schools have done well during the year. The conditions are difficult to contend with, but both of the principals possess excellent administrative powers, which, coupled with their long experience, give them the ability to manage their schools successfully.

EVENING SCHOOLS.

Elementary schools. — These schools have grown to large proportions within the last few years. The causes of this growth have been given in previous Reports. The enrollment for the year was 1993, divided as follows: Males, 1263; females, 730. They necessitate the employment of nearly fifty teachers and four principals. Their cost for the year was $9,370.08.

When they were reopened in the fall some changes were made: the salaries of the teachers were readjusted; all experienced assistants are now paid the same, $5.50 per week, and the pay of the principals is scaled according to the size of the different schools and the responsibility involved; the Central school was abolished and the teachers transferred to other schools.

The success of these schools since the reorganization

took place (two years ago) has been marked. System in organization and good methods of teaching have effected this. These are as necessary for the success of evening as for day schools. Many pupils have been granted certificates of qualification which freed them from the necessity of attending. These certificates are issued to those who enter the schools as illiterates and become able to read and write easy English.

The accommodations at the Cedar Grove school house are not adapted to evening school pupils. The seats, except in two rooms, are altogether too small. The passage ways are utilized, but this is a poor makeshift. I see no way by which the matter can be improved much until a new school house is built in that vicinity for grammar grades. This will probably be necessary in a year or two. Many pupils who attend the Fifth street school are compelled to walk extremely long distances; many from the Howland Mill Village and from localities equally remote. I recommend that rooms be opened next winter in one of the school houses in the south part of the city for the accommodation of these pupils.

Drawing school. — This school has had a successful year. The whole enrollment was 84, divided as follows: Males, 69; females, 15. The average nightly attendance was 64.

Miss Florence A. Cleaves, teacher of drawing in the High school, took charge of this school at the opening of the fall term. She teaches the freehand department. Mr. Nye and Mr. Stetson have taught the same departments that they did last year.

A complete course of study was framed for the schools last year and put on trial. It was revised this year, and in its revised form is now the course followed. As it furnishes a complete outline of what is attempted in the school I will give it below.

In closing, I have but to say that the school is now on a good working basis, and the results are becoming very satisfactory in every department. More ought to seek the advantages offered by it. I think it would be an excellent idea to make a complete course of three years and grant diplomas to those worthily completing it.

COURSE OF STUDY AND REGULATIONS.
EVENING DRAWING SCHOOL.

FREEHAND. FIRST YEAR.

To include seven sheets, as follows:

1. Sheet of model drawing, outline, from object.
2. Sheet of model drawing, outline, from object.
3. Sheet of model drawing, light and shade (charcoal), from object.
4. Sheet of model drawing, light and shade (charcoal), from object.
5. Sheet of geometrical problems and historic ornament (preparatory for design).
6. Two designs, one based on sheet 5; the other based on material
7. given by the teacher.

FREEHAND. SECOND YEAR.

To include five sheets, as follows:

1. Sheet of outline drawing (hand, foot, or mask) from cast.
2. Light and shade drawing (charcoal) of ornament from cast.
3. Light and shade drawing (charcoal, hand, foot, or mask) from cast.
4. Two designs (subject to be chosen by student)—tiles, iron work,
5. wall paper, any surface decoration, or design in the round.

ADVANCED.

Students can confine themselves to cast drawing (medium as teacher shall direct), or continue work in design.

MECHANICAL. FIRST YEAR.

To include eight sheets, as follows:

1. Sheet of geometrical problems.
2. Sheet of geometrical problems.
3. Sheet of orthographic projection.

4. Sheet of orthographic projection, intersection of solids.
5. Sheet of orthographic projection, development of surfaces.
6. Sheet of orthographic projection, development of surfaces.
7. Sheet of isometric projection, } if time permits.
8. Sheet of isometric projection, }

ARCHITECTURE AND PLUMBING COURSE.

SECOND YEAR.

To include six sheets, as follows:

1. } Sheets of details drawn in isometric: halving, mortise, and tennon,
2. } framing, roofing, brickwork, etc.
3. }
4. } Plan and elevation of house, framing, and roof truss of same.
5. }
6. Drawing from some object drawn to measurement.

MACHINE DRAWING. SECOND YEAR.

To include seven sheets, as follows:

1. } Simple details of machinery: as regulation nut, bolt head, etc.
2. }
3. }
4. } Gearing: spur, bevel, and worm gear.
5. }
6. } Developing a right and left hand, standard V, and square threaded
7. } screws, showing the technical, mechanical, and draughtsman's ways.

ADVANCED.

To include seven sheets, as follows:

1. } Drawing of a milling machine head, which includes the screw and
2. } gear problems.
3. }
4. }
5. } Detail drawings of the same machine; placing dimensions and
6. } printing the number of each piece wanted.
7. }

GENERAL EXPLANATORY NOTES.

FREEHAND DRAWING. The aim is to give the student a thorough understanding of the principles of drawing, to teach the student to see for himself, and enable him to apply such knowledge to any work that includes drawing; also to give a thorough understanding of the underlying principles of design.

Mechanical Drawing. The aim is to teach mechanical drawing in such general form as to give a clear understanding of principles, and their application to any class of work.

First Year. I. Plane Geometry:—From elementary principles to include all problems on which the subject and principles of mechanical drawing are directly based; to be given by lectures, and by geometrical construction by the pupils; this to include explanation of use of instruments, and to give practice in their use.

II. Descriptive Geometry:—Being exercises principally in orthographic projection and applications of the preceding to the drawing of ordinary objects; the object being to end the year with a thorough knowledge of the drawing of ordinary working drawings of various objects.

The second year work in the Architectural Course is to include work on objects relating to building construction; to include also design and strength of material to a limited extent: that in the Plumbing Course to include a general description of plumbing plans, and construction, as required by the Board of Health.

The second year work in the Machine Course is to give the student a thorough understanding of the principles of machine construction, and how the work is carried on in shops, as well as the draughtsman's ways of working.

REGULATIONS.

1. Each student is expected to be punctual and regular in his attendance, obedient, and attentive to his work.

2. No student will be admitted to either first year class after the third week of school, unless he is able to pass an examination in the work already covered by the class.

3. When a student has completed the given number of sheets in either of the first year courses, and has passed a satisfactory examination in the required subjects, he will receive a written acknowledgment of the same.

When he has completed the second year's work, and passed an examination in the required subjects, he will receive a certificate stating that he has completed the regular course.

A student who has finished the regular course may attend the school as an advanced student.

4. If a student, when he enters the school, can pass an examination in either of the first year courses, he may join the second year class.

5. If a student wastes, or destroys, any material furnished at the school, or wantonly injures any school property, he shall pay for the same.

6. If any student intends to withdraw from the school before the close of the term, he will please give due notice to the principal.

7. Teachers shall keep a complete record of the attendance of the different departments of the school: and the principal shall make returns of the same to the Superintendent of Schools at the close of each school month.

They shall be the custodians of the property belonging to the school, and deliver the same into the hands of the Superintendent of Schools at the close of the school.

They shall also see that the regulations of the school are observed.

THE HIGH SCHOOL.

The reports for the year from this school show a slight increase in attendance. The average daily attendance for 1889 was 305; for 1890, 315.7. The number of pupils who entered from the lower schools last September was 140; the class that graduated in June numbered 61; the withdrawals for other causes during the year were 66.

At the close of the school year in June Miss Emma H. Wheeler resigned her position as teacher in the school to study another profession. The vacancy was filled by the advancement of Miss Helen L. Hadley, a teacher of the Fifth grade in the Fifth street grammar school. Also owing to the size of the class in September it was thought necessary to place another assistant in the school. The choice of the Board was Miss Mabel W. Cleaveland, who had taught a number of years in the Middle street grammar school. Both of these teachers have entered upon their new duties with an earnestness and enthusiasm that insures success.

Some modifications have been made in the course of study during the year. The course in arithmetic has been changed slightly that it might be more in line with the general plan of instruction pursued in this study in the elementary schools; English history and geology have been added to the electives of the last year; the course in drawing, which was formerly compulsory for the four

years, is now elective for the last two. I think these changes will prove beneficial to the school, and am of the opinion that it would be well to make drawing an elective after the first year, when the course now projected in the schools is in full operation. Under the new regulation relating to drawing, which went into operation in September last, twenty-four pupils in Class I. elected it, and sixteen in Class II.

The principal of the school in speaking of the discipline says, "In respect to discipline, the aim of the school is to train the pupils to self control, and to the voluntary practice of the moral virtues." This most assuredly is the true object of school discipline, and if the means employed to secure it are in harmony with the avowed principle the results will certainly be good. The tone of the school is wholesome. The teachers command the respect of the pupils, and the pupils that of the teachers. Cases of discipline have occurred, in dealing with which the teachers have possibly placed themselves in a position to be criticised; there have been pupils also who have not been touched with the spirit of the school; but these instances are the exceptions and not the rule.

Comparatively little complaint has been made during the year of too great exactions being demanded in lessons; in fact, much less than usual. High schools are criticised quite generally for over-pressure. The arguments pro and con have been gone over too often to need repetition here. I think there is as little real ground for such criticism against the High school here as can be expected. When any complaint has been made it has received attention, and if it seemed a just one after investigation, it was remedied if possible.

The instruction as a whole is thorough and in accord with the advanced ideas of the day. The teaching is not free, however, from two faults which are common to schools

in general. First, too much of the recitation time is occupied by the teachers and not enough by the pupils; second, too much subject-matter is frequently presented to the pupils at a recitation. The two are closely related and those teachers who indulge in the first are prone to the second. They are often the ones who possess a thorough mastery of the branches they teach, and are so enthusiastic concerning them, that they are not conscious of the amount of time they occupy in discussing them, and fail to measure the receptive powers of their pupils.

In the Report last year I devoted some space to a discussion of the movement by which a more practical turn is being given to high school instruction in many places by incorporating in the course a manual training or mechanic arts department. I quoted at some length from the testimony of those who know from personal experience of the success of such a departure. This movement is constantly gaining ground, and each year there are new places that put the experiment into operation. I consider the matter sufficiently important to again direct the attention of the Board to it, and trust that at least it will be taken under advisement. A city of our resources can afford to be a pioneer in such matters and not a simple follower.

By the kindness of the principal, Mr. Huling, I am able to present here certain facts of interest regarding the recent graduates of the school and an outline of the course of study with explanatory notes by him. His recommendation under section 4 I would most heartily second. If our High school is to fit pupils for college let it be done most thoroughly, and that is not possible with the average pupil in the time now allotted the course.

STATISTICS.

1. Number of pupils who graduated from the school last June who are

pursuing higher or supplementary courses of instruction, 26, as follows:

At Howard Medical University,	1
At Harrington Training school,	12
At Swain Free school,	10
At other institutions or by private instruction,	3

2. Number expecting to enter Brown University in September, 1891, not included in above, 2
   Number expecting to enter a medical institute in September, 1891, 1
3. Number post-graduates connected with school during year, 34
4. Number pupils taking classical course at present, 35

COURSES OF STUDY.

CLASSICAL COURSE.	GENERAL COURSE.
First Year — Class IV.	
English, 40.	English, 40.
Algebra, 40.	Algebra, 40.
History (Greece and Rome), 20.	History (General), 40.
Latin, 40.	
Second Year — Class III.	
English, 40.	English, 40.
Geometry, 40.	Geometry, 40.
Latin, 40.	Latin, 40, or
Greek, 40 (if needed).	Physiology, 20; Book-keeping, 20.
Third Year — Class II.	
English, 40.	English, 40.
Latin, 40.	Latin, 40.
French, 40, or	French, 40 (optional).
German, 40.	German, 40 (optional).
Greek, 40 (if needed).	Zoölogy, 20, and Botany, 20 (optional).
Physics, 40 (if needed).	Physics, 40 (required of the boys, optional for the girls).
Fourth Year — Class I.	
English, 40.	English, 40.
Latin, 40.	Latin, 40 (optional).
French, 40, or	French, 40 "
German, 40.	German, 40 "

Physics, 40 (if needed).
Greek, 40 (if needed).
Reviews, 40.

Chemistry, 40 (optional).
English History, 20, and Civil Government, 20 (optional).
Geology, 20, and Astronomy, 20 (optional).

NOTES.

1. The figures appended show the number of weeks each subject is pursued within the school year.

2. Recitations in the studies named above occur four (rarely five) times a week. In addition, lessons in arithmetic, drawing, and singing are given once a week. There are also exercises in free gymnastics for all nearly every day, and in military science for the boys once a week.

3. Lectures are given to all students of Class III. upon physiology with special reference to the effects of stimulants and narcotics.

4. In the Classical Course, the studies will be varied in accordance with the requirements of the college chosen. Only those pupils who are exceptionally strong in intellect and health can completely satisfy the demands of the best colleges in four years; hence, in most cases, a fifth (post-graduate) year of study is recommended.

5. In the General Course, each student is expected to pursue three main studies. A fourth study may be taken if, in the judgment of the Principal, the circumstances warrant such a step. English is a required study throughout the course; algebra, history, and geometry are required each for a single year. In the first year there are no optional studies. In the second year the choice lies between Latin on the one hand, and physiology, followed by book-keeping, on the other. In the third year physics is required of all the boys, and is optional for the girls; Latin, French, German, and zoölogy, followed by botany, are optional for all. In the fourth year all the studies except English are optional. Latin, French, and German, however, if once begun, must be continued two years.

6. An average of 70 per cent. in scholarship is requisite for promotion and graduation.

7. The work in English occupies one third of the student's time continuously for the four years. It follows, in general, four lines: the principles of composition and rhetoric, practice in composing, the reading and study of literature, and the biography of authors. These are pursued *pari passu* throughout the course, but in varying proportions at different periods. In the first year two fifths of the time is occupied in language work, including exercise writing, with a little technical grammar. The remainder is given to the reading of specimens of general literature and the study for a considerable period of a longer work, as

Irving's Sketch Book, Longfellow's Evangeline, and Franklin's Autobiography. In the second year one fifth of the time is devoted to rhetorical work, with occasional exercises, and four fifths to the reading and study of specimens of American literature. About a dozen authors are dwelt upon with considerable care, and others more lightly. Three works are studied for a longer period, viz.: Whittier's Snow Bound, Lowell's Sir Launfal, and Emerson's Essays. In the third year similar work is done upon the most important writers of English literature. Some dozen authors are taken up quite critically and numerous others with less fullness. The pieces of literature themselves are examined, annotated, and discussed, portions of them are committed to memory, and the opinions of contemporary and modern critics are referred to. In the fourth year essentially similar work is carried on, but with more minute criticism and more thoughtful discussion. It is based upon Shakespeare's Hamlet, Merchant of Venice, and Midsummer Night's Dream, Byron's Childe Harold, and Milton's Paradise Lost (in part). In studying Shakespeare the whole setting of the Elizabethan era is brought out,—the history of the time, the state of society, the idioms in common use, for instance; and so with the other poems. Attention is given also to the structure and growth of the English language. Throughout the course monthly compositions are required, many of which are corrected with the pupil at the teacher's side; also short extracts are committed to memory and recited. The aim of the whole course is to develop in the pupil facility and accuracy of expression by tongue and pen, and also an appreciative acquaintance with the best in American and English literature.

8. In arithmetic the weekly lessons are designed to keep the pupils familiar with processes learned elsewhere and to supplement deficiences. The work is distributed over the four years thus:

Class IV. 1. Reviews as follows: Percentage and its application to Profit and Loss, Commission, Simple Interest, Commercial Discount, and Bank Discount. 2. New subjects: Compound Interest, the principle involved and its application to a few simple examples. 3. Drill: Class exercise each week for a few minutes in adding long columns of figures; business forms.

Class III. 1. Reviews as follows: Examples from time to time, in the subjects taught in Class IV., Taxes, Insurance, Partnership. 2. New subjects: Partial Payments, U. S. rule and a few examples in application; Involution and Evolution. 3. Drill: As in Class IV.

Class II. 1. Reviews: Examples from time to time in the subjects previously taught, especially in Percentage, Simple Interest, Commercial and Bank Discount, Ratio and Simple Proportion. 2. New subjects: Compound Proportion, Custom House Business, Stocks, Exchange. 3. Drill: As before.

Class I. 1. Metric System. 2. Mensuration. 3. General reviews.

Simple interest is computed hereafter in *all* classes by the following rule:

Find the interest for 60 days at 6 per cent. by taking 0.01 of the principal. For other periods of time take convenient multiples or aliquot parts of the interest for 60 days.

In algebra the students are usually carried to radical expressions. In geometry the pupils are led to use the definitions and axioms, when acquired, in tracing logical conclusions from given premises, within the range of plane geometry. Original demonstrations are encouraged from the outset. Advanced courses in algebra and geometry are given to students preparing for higher institutions.

9. In physics and chemistry, experiment by the pupils is relied upon in work involving the conditions necessary to produce given phenomena and also that involving measurements. Principles are brought out by the teacher with illustrative experiments. The text-book is used for subsequent applications of the principles and for reviews. Observed results are recorded by the pupil in his note book, which, after correction by the teacher, furnishes material for recitations. Reference books are freely used. Two laboratory exercises, two recitations, and a lecture ordinarily make up a week's work. One division of the physics class pursues the course of forty experiments required for admission to Harvard College.

10. Zoölogy and botany are so taught as to secure close and exact examination of specimens, by dissections and analysis, and the development of logical thought and expression. After personal observation with the necessary implements, books and pictures are consulted; then drawings are made and the results of the pupils' observations are systematically arranged and recorded. Recitations are based upon these observations, as well as upon lectures and text-books.

11. Latin is begun the first year by those alone who intend to enter college; other students begin this subject the second year. In the beginning class the aim is to master the declensions and conjugations, to learn the principles of construction, and to build up a limited vocabulary. In the second year Cæsar is read, with grammatical reviews and weekly exercises in composition. In the third year attention is given to Vergil and in the fourth to Cicero. Exercises in composition and sight reading are frequent. In Greek the first year's work has the same aim as that of the first year in Latin; the second and third are given to Xenophon and Homer (with Herodotus, when needed) and to work in prose composition.

12. In the two years devoted to the study of French and German the instruction aims to secure a thorough knowledge of elementary grammar, an ability to understand the spoken language, a readiness of cor-

rect and idiomatic expression upon simple subjects, and an ability to translate into English, and from English into French or German.

13. The study of general history occupies the first year. The objects sought are the encouragement of independent thought, the arrangement in compact and logical order of the facts under consideration, the comprehension of the purpose underlying words and acts, and the application of the lessons of the past to the present. A large collection of pictures has been gathered and is in constant use to heighten vividness of impression. Map drawing is brought in to secure definiteness in the location of historical places. Selections from historical novels and standard histories are introduced to develop a taste for historical reading. Students preparing for higher institutions, in their last year supplement this outline with a fuller course. In the last year, also, there is an optional course in English history, based on the text-book and on class discussion.

14. The course in astronomy is descriptive rather than mathematical and is based on the text-book, together with observations taken through a telescope having a six-inch objective. A smaller telescope is also used by the pupils for work without personal oversight, as in the drawing of sun-spots.

15. In geology instruction with the aid of the text-book is given in the historical and structural branches of the subject. In addition the pupils are taught by laboratory practice to identify the common New England rocks and subsequently to make collections of specimens collected and identified by themselves. Some thirty-five specimens were thus treated by each pupil in the last class.

16. The half-year in civil government, coming at the very end of the course, is intended to be a direct preparation for citizenship. The general principles of government are first examined. Then the origin and history of the New England colonies are reviewd. Next the constitution of Massachusetts is discussed, together with the details of town, city, and county management. Finally the constitution of the United States is taken up. At proper stages the pupils are taken to observe the legislature, the city council, and the superior court in session, and in general the study is made as objective as the conditions warrant.

17. In respect to discipline, the aim of the school is to train the pupils to self control, and to the voluntary practice of the moral virtues.

THE TRAINING SCHOOL FOR TEACHERS.

The object of this school, the course of study pursued by the pupil teachers, the regulations governing it, the terms of admission to it,—all these were given in las

year's Report. It remains but to speak of its present condition and what has been accomplished in it during the year past.

The school completes its existence of a year and a half the first of February, 1891, when the first class to complete the full course will graduate. A class of five was graduated last February, and one of eight in June. All of these young ladies are now teaching in the schools and in most cases are rendering acceptable service. These classes were composed of young ladies who were on the waiting list of teachers when the school was organized and many of them had had more or less experience in teaching before entering it.

Those who graduate from the school are given diplomas and placed on the approved list of teachers, and, when appointed to regular positions, are given second year's pay. A few have been refused diplomas who have not reached the requirements.

Besides teaching the three hundred children who attend the school, the pupil teachers are required to act as substitutes when the regular teachers in other schools are absent, provided there are no graduates available. As will be seen by the statistics at the end of this article, there were many requisitions on the school for substitutes the past year. This made it exceedingly hard for the principal and her assistant; for they were often compelled to do double duty. It was also trying to those pupil teachers who were obliged to be out of the school for weeks at a time and yet maintain their standing. The same condition of things is not likely to occur again, and the school will not probably be called upon in the future so frequently for substitutes as to cramp the work there.

Notwithstanding all the difficulties that the school had to contend with, the interests of the children who attend it were well cared for. The principal and her assistant

were compelled to neglect somewhat their normal work with the pupil teachers in order to effect this; but first of all the interests of the pupils are considered in conducting the school. The good methods employed in teaching and the careful oversight exercised by those in charge, more than compensate in the teaching for the frequent changes of teachers and their comparative inexperience. And I am convinced that the immediate results obtained here compare favorably with the best of the other schools in the city, while more attention is given than in many of the schools to developing those powers which will aid the pupils in the future.

The order is good, and while it would not be at all strange if there were more breaches of discipline than in other schools having permanent teachers, I do not find it so. Stress is constantly laid upon the necessity of teaching the pupils to act from right motives, and the effect is apparent in the general good tone that pervades the school.

The special teachers in music and drawing visit this school each week, dividing their time between the regular pupils and the pupil teachers. It is essential that the latter acquire a good knowledge of the methods employed in teaching these subjects, that they may put them into practice not only in the Training school but in the positions they are to fill in the future. The hour each week that the special teachers give to the pupil teachers cannot be better employed for the general good of the schools.

The school is in excellent condition and is doing well the work for which it was instituted. If the Board continues the same policy in administering it that it has heretofore pursued, there is no question but it will prove a powerful instrument in making the whole school system more effective. It may be necessary to regulate the size of the entrance classes in order to have the school work to the best advantage and to be maintained at the least neces-

sary expense. The entering classes each February will undoubtedly be larger than those entering each September unless some action is taken by the Board regulating the size of the entering classes. For example, the entering class last September consisted of but two, while twelve or fourteen are expected in February. This results from the graduates of the High school (from whence most of the candidates come) preferring to wait six months after graduating before taking the entrance examinations.

It will happen, then, that there will at times be very small Senior classes, necessitating the temporary assignments of some of the graduates of the school as teachers, while the Junior classes will be unnecessarily large. By limiting the entrance classes to eight or nine, selecting this number by rank at each examination from the candidates taking it (provided more than that number present themselves and pass at any one time), and giving those who have passed the examination the preference at the next assignment over those taking the examination later, the difficulty might in a great measure be overcome.

The number of different persons who visited this school during the year attests the interest that is taken in it. These schools are multiplying throughout the country, and there is scarcely a New England city of any importance that does not boast of one. These vary in efficiency, however; those in the larger and wealthier cities excelling by virtue of the broader basis upon which they are founded and the advantages that they receive. There is nothing to prevent this one from being the very best, and I am confident that it needs but the experience of a year or two more to become so, if it has not already attained that distinction.

STATISTICS FOR YEAR.

Number pupil teachers enrolled during the year,	32
Number pupil teachers admitted in February,	5
Number pupil teachers admitted in September,	2
Number pupil teachers graduated in February,	5
Number pupil teachers graduated in June,	8
Number pupil teachers in Senior class, Dec. 20, 1890,	8
Number pupil teachers in Junior class, Dec. 20, 1890,	6
Number pupil teachers in Sub-Junior class, Dec. 20, 1890,	2
Number days' substituting by pupil teachers,	193
Number days' absence for other causes,	195
Total number days' absence by pupil teachers,	388
Number different persons who visited school,	258
Number different visits made the school,	589
Average daily attendance of pupil teachers,	17
Average daily attendance of Senior and Junior classes,	13
Average number of pupils belonging to the school,	294

SPECIAL BRANCHES OF STUDY.

Music.—The work in this study was somewhat interrupted during the year by a change of supervisor. Mr. Diman resigned the position that he had held for a number of years as instructor in this branch. He had been dividing his time for some months between the schools here and those of another place. The Board felt that the whole time of a male teacher of this subject was needed here. Mr. Diman did not care to accept the proposition made to him by the Board and it became necessary to find another teacher.

The choice of the Board was Mr. F. H. Butterfield of Washington, D. C. Mr. Butterfield is a teacher of long and successful experience. He held the position of supervisor of music in Washington when he was called here. He entered upon his work with us about the first of October. While his methods differ somewhat from those of his predecessor, he is familiar not only with his own special subject but with educational principles in general, and applies them to his teaching. It is not yet time to

judge of the results, but I am confident from what I have already observed that the instruction in music in our schools will continue to be most efficient.

Drawing.—The instruction in this subject has been in an unsettled condition so long that satisfactory results are not produced and as yet can scarcely be expected. Misfortune has seemed to pursue this branch. It is not to be wondered at that the regular teachers feel less confidence in teaching it than any other. No plan has been followed in quick succession by several plans, and it is to be devoutly hoped that the present one possesses at least the elements of permanency, and that the present special teachers will be able to put it into successful operation.

Miss Florence A. Cleaves now has charge of the subject in the High school. Miss Adelaide B. Hyde, who had charge of the work in the elementary grades for one year, was granted leave of absence for the fall term on account of failing health. She has been obliged on account of her health to resign her position, and will be succeeded by Miss Blanche I. George of Boston. Before resigning Miss Hyde prepared a complete scheme of drawing for all the grades which is now on trial. It will undoubtedly be followed in the future with slight modifications.

Both Miss Cleaves and Miss George have received thorough training for their work, and if there are no interruptions for several years, they will be able, I am confident, to give this study a value in our school curriculum that it has not yet attained.

Sewing.—No change has occurred in the methods of conducting this branch of instruction during the year in the teaching force.

While recognizing the importance of this work, the amount of good that is accomplished by it, and the faithfulness of the present teachers, I feel that there are some

things in the present methods of conducting it that might be improved and trust the matter may be taken under consideration.

PEDAGOGICAL LIBRARY.

This library was established some two years ago that the teachers might have access to a number of books relating to the history of education, the science and art of teaching, and kindred subjects.

It is located at the office of the Superintendent of Schools. It now contains 152 volumes, and others are to be added from time to time. A complete list of the books that were in the library when the last Annual Report was issued, was given in it. Those that have been added since are given in this connection.

The teachers have patronized the library to quite an extent, thereby showing their appreciation of it. Two hundred thirty books have been taken out by them since it was formed.

But this does not measure the amount of professional reading done by the teachers. Many of them own books of their own on educational subjects, are regular subscribers to educational papers, patronize the Public Library, and also are supplied with books and papers from the Howland fund; all of these means they use for improving their special and general knowledge.

List of books added to library within the year 1890:

No.	Title.	Author.
137.	Courses and Methods.	Prince.
138.	Pestalozzi: His Life and Work.	De Grumps.
139.	Elementary Psychology.	Baker.
140.	Linder's Empirical Psychology.	De Garmo.
141.	The Manual Training School.	Woodward.
142.	Introduction to Shakespeare.	Corson.
143.	Teachers' Manual of Geography.	Redway.
144.	" " " "	"

145. Insecta. . . . . Hyatt.
146. School Hygiene. . . . . Newsholme.
147. Astronomical Geography. . . . . Jackson.
148. Nineteenth Century Authors. . . . . Hodgkins.
149. The Reproduction of Geographical Forms. . . Redway.
150. Natural History Object Lessons. . . . . Ricks.
151. Essentials of Method. . . . . De Garmo.
152. Industrial Education. . . . . Seidel.

NO SESSION OF SCHOOLS.

In order to have some definite arrangement by which parents and teachers may be notified when it is thought best to have no session of the schools in the morning or to dispense with the afternoon session, the following vote was passed by the Board at its regular November meeting: "Voted, That the Superintendent of Schools be empowered to consult with the Chief Engineer of the Fire Department, and arrange, if possible, for a system of alarms to be struck by order of the Superintendent of Schools when in his judgment there should be no session of the schools on account of the weather—this vote to apply to the grammar and primary grades only, and not to the High school or country schools."

In accordance with the above vote an arrangement was made with the proper officers of the Fire Department and the following system of signals agreed upon, notice of which was sent to teachers and parents:—The signal 22 (that is, two strokes, an interval, and the two strokes repeated) sounded on the fire alarm at 8.15 A. M., will indicate no school in the primary and grammar grades in the forenoon.

The same signal sounded at 12.45 P. M. will indicate no school in the primary and grammar grades in the afternoon.

If the signal is sounded at 8.15 A. M. and not repeated at 12.45 P. M., there will be a school session in the afternoon.

This regulation does not apply to the High school or the country schools.

It is not always possible to forecast the weather, and therefore no-sessions are ordered at times when it appears later that it would have been better to have had school; and, again, the signal is sometimes not struck when the weather an hour later would have demanded it. The signals must be struck at just such times and a decision one way or the other must be made some minutes before. It should be remembered always that whatever action is taken the good only of the majority of the pupils is considered.

NATIONAL FLAGS FOR THE SCHOOL.

I should be remiss in my duty if I closed this Report without making proper acknowledgment of the gifts of the national flags that a number of our schools have received from several of their generous and patriotic friends.

The Harrington Training school was the recipient of a fine flag and staff from the William Logan Rodman Post, G. A. R. They were presented on Memorial Day by the Post with public exercises which were witnessed by a large audience. The presentation speech was made by Hon. Thomas W. Cook. His Honor Mayor Clifford accepted the flag in behalf of the Board with the eloquence and appropriateness of speech that characterize his public utterances. The exercises were impressive and instructive.

The other schools that have received flags, with the names of their donors, are as follows:

Thompson street school,	Gen. J. D. Thompson.
Dartmouth street school,	Jonathan Howland, Jr.
Middle street school,	Messrs. Sanders & Barrows.
Acushnet school,	Messrs. Brownell & Murkland.

The Board expressed its appreciation of these gifts by suitable action in each case. The pupils and teachers in these favored schools are interested in these flags and proud of them.

These national emblems floating day after day above the school houses are object lessons of importance. Every child should be taught the significance of the flag and what it represents in our national life; should be made to feel that it is the duty of every American citizen to love and defend it and all that it symbolizes.

CONCLUSION.

Teachers' meetings have been held throughout the year both by me and by the special teachers. We have not been favored, however, by addresses from educators of other places as in the past. I hope that arrangements may be made the coming year for a number to be delivered to the teachers on topics bearing directly upon the school work. They would be stimulating and helpful.

I had intended before this time to have issued the complete course of study for all the grades of the schools; but various causes have prevented. While the teachers are now working on the general line to be followed in this new course there are yet some important matters to be determined upon before it would be well to print it. There seems to be no good reason why it cannot be issued by the beginning of the next school year.

In closing, I wish to express to the members of the Committee my appreciation of the counsel and aid that they have so willingly accorded me at all times; also to extend to the teachers my hearty thanks for their cordial coöperation in my efforts to elevate the standard of the schools.

Respectfully submitted.

WM. E. HATCH,
Superintendent of Schools.

List of Teachers.

HIGH SCHOOL.

Grade.		Residence.	Salary.
	Ray Greene Huling, Principal,	195 Cottage street,	$2,750
	Chas. T. Bonney, Jr., Sub-Master,	121 Washington "	1,600
	Chas. R. Allen, Science Teacher,	1 Lincoln "	1,500
1	Sarah D. Ottiwell,	74 Kempton "	1,000
2	Elizabeth P. Briggs,	366 Union "	900
2	Lydia J. Cranston,	81 North "	900
3	Lucretia N. Smith,	72 Foster "	900
3	Mary E. Austin,	214 Kempton "	900
3	Mabel A. Spooner,	12 Morgan "	500
4	Helen L. Hadley,	196 Grinnell "	650
4	Emma K. Shaw,	72 High "	800
4	Mabel W. Cleaveland,	81 North "	650
	Florence A. Cleaves, Drawing Teacher,	35 Eighth "	550
	John K. McAfee, Military Instructor,	72 School "	300

GRAMMAR SCHOOLS.

Fifth Street:

	Allen F. Wood, Principal,	111 Acushnet av.,	1,800
5	Lydia A. Macreading,	17 Bonney street,	550
5	Harriet F. Hart,	233 Acushnet av.,	550
6	Mary E. Allen,	25 Madison street,	550
6	Sarah E. Stoddard,	352 County "	550
7	Nancy H. Brooks,	135 Fourth "	550
7	Janet Hunter,	55 No. Sixth "	550
8	Mary A. Kane,	157 Grinnell "	550
8	Blanche W. Sheldon,	169 Union "	480
9	Grace L. Carver,	147 Acushnet av.,	450
9	Lena B. Chubbuck,	148 Purchase st.,	550

Middle Street:

	George H. Tripp, Principal,	Fairhaven,	1,800
5	Agnes J. Dunlap,	117 Hillman street,	550
6	Katharine Commerford,	634 County "	550
6	Etta M. Abbott,	103 School "	550
7	Lucy B. Fish,	64 Smith "	550
7	Lucy D. Ashley,	619 County "	550
8	Clara B. Watson,	37 Fifth "	550
8	Maria B. Clark,	131 Chestnut "	550
9	Mary R. Hinckley,	111 High "	550
9	Clara S. Vincent,	233 Middle "	550

PARKER STREET:

Grade.		Residence.	Salary.
	Charles E. E. Mosher, Principal,	92 High st.,	$2,000
5	Emma A. McAfee,	72 School st.,	550
5	Anna L. Jennings,	115 Maxfield st.,	550
6	Mary E. Sturtevant,	220 Summer st.,	550
6	Emma B. McCullough,	300 Purchase st.,	475
7	Martha A. Hemenway,	5 Lincoln st.,	550
7	H. Jennie Kirby,	111 Summer st.,	500
8	Josephine Almy,	201 Cottage st.,	550
8	May L. Pettey,	22 Pope st.,	550
8	Mariana N. Richmond,	34 High st.,	525
9	Emma B. Allen,	Morgan st.,	525
9	Lizzie E. Omey,	63 Thomas st.,	475
9	Emily A. Delano,	East Freetown,	500
9	Anna I. Dexter,	11 Franklin st.,	450

THOMPSON STREET:

7	Katharine N. Lapham, Principal,	Cor. Union & Sixth sts.,	825
8	Abby F. Sullivan,	230 County st.,	550
8	Cora B. Cleaveland,	81 North st.,	425
9	Mary A. Macy,	72 Bedford st.,	550
9	Leonora B. Hamblin,	141 Washington st.,	450

HARRINGTON TRAINING SCHOOL:

	Josephine B. Stuart, Principal,	464 County st.,	1,300
	Anna W. Braley,	619 County st.,	700
	Fourteen Training teachers,— eight Seniors, $4.00 per week; six Juniors, $3.00 per week.		

PRIMARY SCHOOLS.

ACUSHNET AVENUE:

10	Jane E. Gilmore, Principal,	245 Acushnet av.,	600
11	Sarah E. Kirwin,	101 So. Sixth st.,	500
12	Helen C. Allen,	173 Grinnell st.,	500
12	Clara C. M. Gage,	78 Mill st.,	475
13	Susan M. Lucas,	167 North st.,	500
13	Carrie S. Silva,	81 Washington st.,	450
	Rachel L. Denham,	366 Cottage st.,	400

CEDAR STREET:

10	Annie S. Homer, Principal,	117 Hillman st.,	575
11	Bessie P. Peirce,	124 Hillman st.,	500
12	Abby D. Whitney,	59 Hill st.,	500
13	Willetta B. Nickerson,	64 Allen st.,	500
13	Annie L. Edwards,	62 North st.,	475

CEDAR GROVE STREET:

Grade.		Residence.	Salary.
13	Lucy F. Clark, Principal,	131 Chestnut st.,	$575
13	Mary J. Eldridge,	200 So. Second st.,	500
12	Grace H. Potter,	4 Orchard st.,	475
12	Annie G. Brawley,	23 Washburn st.,	425
11	Carrie A. Shaw,	Belleville,	475
10	Flora E. Estes,	535 Purchase st.,	475

CANNONVILLE:

	Addie J. McFarlin, Principal,	152 Kempton st.,	525
	Lillie C. Tillinghast,	Middle & Pleasant sts.,	450

DARTMOUTH STREET:

10	Isadore F. Eldridge, Principal,	28 Sherman st.,	575
11	M. Eva Schwall,	11 Bonney st.,	500
12	Annie M. Carpenter,	2 Grape st.,	500
13	Sara H. Kelley,	24 Seventh st.,	500
13	Annie F. Smith,	18 Bonney st.,	400

FOURTH STREET:

10	Sarah H. Cranston, Principal,	81 North st.,	600
11	Eliza H. Sanford,	76 Fifth st.,	500
12	Sarah E. Sears,	21 Griffin st.,	500
12 and 13	Annie L. Macreading,	17 Bonney st.,	475
13	Alice A. Taylor,	299 County st.,	400
13	Myra A. Leach,	75 Sycamore st.,	400

GROVE:

10	Jane C. Thompson, Principal,	194 County st.,	550
11	Sarah Tuell,	1046 So. Water st.,	500
12	Hattie L. Finlan,	186 County st.,	500
13	Nellie W. Davis,	49 Bedford st.,	500
13	Mary Barstow,	So. Orchard st.,	450

LINDEN STREET:

10	Elizabeth P. Spooner, Principal,	129 Hillman st.,	550
11	Isabella Luscomb,	245 Cedar st.,	500
12	Isadora Foster,	48 Parker st.,	500
13	Lucy S. Leach,	91 Maxfield st.,	500

MERRIMAC STREET:

10 and 11	Sarah H. Hewins, Principal,	111 Merrimac st.,	550
12	Addie West,	232 Pleasant st.,	500
13	Hattie S. Damon,	78 Hillman,	475

MAXFIELD STREET:

Grade.		Residence.	Salary.
13	Mary B. White, Principal,	57 Foster st.,	$550
12	Annie E. Pearce,	151 Hillman st.,	500
11	Sarah E. Field,	240 Middle st.,	500
10	Bessie P. Nash,	1121 Acushnet av.,	500

THOMPSON STREET:

10	Susan M. Tompkins, Principal,	2 Court st.,	550
11	Helen J. Kirk,	27 Franklin st.,	500
12	Sarah A. Winslow,	315 County st.,	425
13	Annie C. O'Connor,	299 County st.,	500
13	Annie L. Brownell,	13 Sherman st.,	400

WILLIAM STREET:

10	Eleanor Commerford, Principal,	634 County st.,	550
11	Mary J. Graham,	12 Court st.,	500
12	Kate E. Cleary,	61 Mechanics lane,	500
13	Amelia Lincoln,	87 Walden st.,	500

COUNTRY SCHOOLS.

ACUSHNET:

Charlotte C. Carr, Principal,	56 Spring st.,	700
Belle B. Wheeler,	2 Mt. Vernon st.,	450
Caroline O. Pierce,	1 Spruce st.,	475

CLARK'S POINT:

Annie B. Parker,	83 Walden st.,	450

NORTH:

Mary I. Ashley, Principal,	Clifford,	550

ROCKDALE:

Susan C. Graffam, Principal,	280 Acushnet av.,	500

PLAINVILLE:

Mary E. Haney, Principal,	Fairhaven,	475

MILL SCHOOLS.

NORTH:

Emma R. Wentworth, Principal,	117 Hillman st.,	$15.50 per week.
Kate Sweet, Temp. Asst.,	121 Kempton st.,	8.00 " "

SOUTH:

Lucy J. Remington, Principal,	493 County st.,	$15.50 per week.
Gertrude M. Robinson, Temp. Asst.,	25 Chestnut st.,	8.00 " "

SPECIAL TEACHERS.

	Residence.	Salary.
Drawing:		
Blanche I. George,	20 Seventh st.,	$1,200
Singing:		
F. H. Butterfield,	40 Chestnut st.,	1,700
Sewing:		
Carrie H. Richmond,	33 Seventh st.,	525
Eliza A. Smalley,	71 So. Sixth st.,	270
Gertrude H. Leonard,	62 Fifth st.,	270

EVENING DRAWING SCHOOL.

Florence A. Cleaves,	250
George A. Stetson,	120
George H. Nye,	120

EVENING ELEMENTARY SCHOOLS.

Fifth Street:	
Oliver W. Cobb, Principal,	$12.00 per week.
Mrs. S. C. Whelden,	5.50 "
Mrs. C. T. Johnson,	5.50 "
Grace H. Potter,	5.50 "
Mary A. Kane,	5.50 "
Nancy H. Brooks,	5.50 "
Annie F. Smith,	5.50 "
Alice A. Taylor,	5.50 "
Leonora B. Hamblin,	5.50 "
Nellie H. Cook,	5.50 "
Julia A. Fay,	5.50 "
Sarah E. Stoddard,	5.50 "
Mary E. Barstow,	5.50 "
Jane E. Gilmore,	5.50 "
Alice P. Terry,	5.50 "
Annie B. Parker,	5.50 "
Parker Street:	
George H. Tripp,	12.00 "
Agnes J. Dunlap,	5.50 "
Sara L. Tallman,	5.50 "
Ida A. McAfee,	5.50 "
Mary F. Wilde,	5.50 "
Belle M. Almy,	5.50 "

CEDAR GROVE STREET:

	Salary.	
Allen F. Wood,	$12.00	per week.
Robert Washburn,	5.50	"
Annie G. Brawley,	5.50	"
Grace L. Carver,	5.50	"
Myra A. Leach,	5.50	"
Nannie P. Slocum,	5.50	"
Daisy M. Butts,	5.50	"
Addie J. McFarlin,	5.50	"
Mary R. Hinckley,	5.50	"
Abby R. Johnson,	5.50	"
Lydia A. Macreading,	5.50	"
Sarah E. Kirwin,	5.50	"
Lizzie Bennett,	5.50	"
Susie P. Diman,	5.50	"
Carrie A. Shaw,	5.50	"

MERRIMAC STREET:

Joseph P. Kennedy,	10.00	"
Regina M. Paul,	5.50	"
Edith M. Weeden,	5.50	"
Bessie P. Peirce,	5.50	"
Janet Hunter,	5.50	"

1891 — CITY DOCUMENT No. 7.

Twelfth Annual Report

OF THE

BOARD OF HEALTH,

City and Quarantine Physician,

OF THE

CITY OF NEW BEDFORD,

TO THE

City Council,

FOR THE YEAR 1890.

NEW BEDFORD:
MERCURY PUBLISHING COMPANY, PRINTERS TO THE CITY.
1891.

In Board of Aldermen,
April 30th, 1891.

Received, ordered printed in the City Documents, and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,
April 30, 1891.

Concurred.

WM. A. MACKIE,
Clerk.

REPORT.

OFFICE OF THE BOARD OF HEALTH,

January, 1891.

To His Honor the Mayor and Gentlemen of the City Council of the City of New Bedford:

In conformity with the custom of this department, the Board of Health of the City of New Bedford respectfully submits its twelfth annual Report for the year ending December 31, 1890.

In order that the present condition of the work of the Board may be known to your honorable body, and to the citizens generally, it is deemed advisable to review what has been done and what improvements have been adopted since our last Report.

We conceive it further to be our duty to make such recommendations as the exigencies of the service, and a due regard to the public health, would seem to require.

To this end it will be necessary that the coöperation and assistance of the City Council should be obtained.

The public health is a matter of so great consequence and importance that no labor or expense should be spared to abate whatever nuisances may be found to prejudice it or to adopt and accept such improvements as will tend to promote it. It is easier and cheaper to prevent disease than to cure it.

As the city is now rapidly increasing in population, so all those evils which tend to sickness and disease are out of all proportion, multiplied in numbers and increased in force, so that those sanitary measures which were once sufficient are now defective, if not entirely useless.

The origin and spread of contagious diseases are now almost universally conceded to depend, in a great measure, upon the cleanliness of the people, and it is the duty of the government to provide for this in all cases where individual efforts are altogether wanting or not to be depended upon. There are many things over which the individual has little or no control, such as the structure and condition of the sewers, the removal of filth and garbage, the abatement of nuisances, and the plumbing of houses, tenements, and buildings adjacent thereto.

The oversight of these and the provisions in relation to them, belong exclusively to the city and the officers in its employ. The health of a city as large as New Bedford must depend in no small degree upon its system of sewerage and the construction of the sewers. In general, it is believed that the sewers of our city will not only compare favorably with those of other cities in the Commonwealth, but they are fully equal to the work which is required of them. We have no reason to complain that they are not properly flushed and cleaned, or that the health of our citizens is not promoted by them.

There is one sewer, however, to which we feel it our duty to call the attention of the city, namely, the Bonney street sewer. This sewer empties its sewerage upon the flats near Crapo street. This part of the city is being rapidly built up with houses especially for the occupancy of those who are employed in the recently constructed mills in that vicinity. In such location and with such surroundings as are usually in such places, epidemics here first make their appearance and here the longest maintain

their hold. It is not possible but that the flow from this sewer should leave deposits which in their decomposition will tend to the injury of the health of those who live in the houses and tenements in that vicinity. The vital importance of a thorough system of removal and inoffensive disposal of sewerage is generally recognized, but it obviously is of little use to carry the excretal and house waste from one place to deposit it in another.

Undoubtedly the cost of extending the sewer is an obstacle to be met, but whether so or not, the sanitary conditions must be complied with, no matter what the cost, for at the most that is only a secondary consideration.

Every privy in the city is a constant nuisance, and the removal of the contents of the same by a well constructed sewer is the only way to prevent them from being an outrage upon the public health and public decency.

ABATEMENT OF NUISANCES.

As the city increases in population, so nuisances of one sort or another are found to increase.

The power of the Board of Health, which has been given to it by the law, has generally proved to be sufficient to abate them, and since the employment of the Health Inspector, the work has been done with very little friction or disturbance. A large number of persons, because they live in a free country, think they have the right to keep pigs, make privy vaults or cesspools, build their stables, barns, and houses all in the way that suits them best, and naturally express their indignation when what they call their inherent rights are in any way interfered with. To such, the public health is no concern, nor should it ever be consulted in preference to their own pleasure and wishes.

Ignorant of the laws upon which health depends, they are equally regardless of their own, that of their families,

and the public. To do what is necessary to be done in the cheapest way and to provide those things which they deem it most profitable to have and to keep, are all the ends which they ever have in view. Sickness overtakes them for their thoughtlessness and epidemics spread from their folly.

The accompanying report of the Health Inspector shows the amount of service which has been rendered by this officer during the past year. Mr. William E. Macomber has peculiar fitness for the duties which devolve upon the inspector in the matter of abating nuisances. The duties of his office are many times unpleasant, but he has succeeded in discharging them without hesitation and without disturbance. We know of no city where a single inspector is required to perform so much inspection duty, covering such an extent of territory as in New Bedford. New Haven, with a population of 85,000, has two inspectors. New York and Boston each have one to every 20,000 or 30,000 inhabitants, and most other cities in like proportion.

The most troublesome of all nuisances are caused by privy vaults, and these in the line of a sewered street should never be tolerated. The Board are having them removed as fast as practicable and possible, and it is gratifying to be able to report that every year diminishes their number within the city limits.

FILTH AND GARBAGE.

What is to be done with the filth and garbage is a question of great importance, and one which has caused the Board no little trouble and anxiety. It is not permitted to be put in the ashes and dirt barrels, yet, notwithstanding that, it often finds its way there unobserved by the collectors, is carted away and dumped into places to be filled up; in this way it becomes mixed with the other filling, which, as soon as it comes to be worked over, being partially decomposed, is both offensive and unhealthy.

This Board respectfully suggests that filth and garbage should be removed in carts under the charge of the Board of Health and taken to some place where it can be consumed by fire. A furnace suitable for this purpose could be provided without very great expense, and thus a constant source of annoyance and cause of sickness be prevented.

PLUMBING.

The report of the Inspector of Plumbing will show how much has been accomplished in this department during the year. To what extent imperfect and defective plumbing may be a cause of disease is, of course, uncertain; but that it is so to a much greater extent than is generally supposed is beyond a doubt. With the growth of the city this evil has grown and has come to be a very formidable menace to the public health. In accordance with the provisions of the rules of this Board plans for the plumbing of all new work must be filed in this department. These may readily be referred to, and buyers or lessees of modern houses can at little trouble and at no expense ascertain the precise location and condition of every trap and pipe in dwellings in which they may have a present or prospective interest.

Few, if any, persons would now think of buying first-class property or modern private residences without being thoroughly satisfied that the plumbing is sanitary or according to the rules of the Board of Health.

In new work the water test should always be used, and the time has arrived when in the opinion of this Board it should be adopted in this city. By this test any amount of pressure may be applied which may be deemed necessary to prove the sufficiency and value of the work done.

In older buildings corrosion and perforation of pipes are so commonly found by our inspector as to render the occu-

pation of such houses very questionable, in a sanitary point of view. The tests in such cases are known as the peppermint tests, and unquestionably are the best that are known when the water test cannot be applied.

We cannot speak in too much praise of Mr. Louis H. Richardson, the Inspector of Plumbing, who continues to hold his office under civil service rules. We do not believe that the public health will suffer from defective plumbing by reason of the want of careful inspection, or any other thing which it is in his power to do to prevent poor work or provide a remedy for defects.

VACCINATION.

The Board feel that they cannot conclude this Report without calling the attention of the City Council to the inadequate and insufficient accommodations of the Department of the Board of Health, and to urge upon the Government to provide larger, better ventilated and better arranged apartments. There being now only one room, which is always open to the public, there is no convenience for private consultations of the Board.

The greatest evil consists in the want of accommodations for the patients who visit the department for vaccination. Children and young girls must of necessity be stripped of their clothing to a certain extent, and often in the presence of many others who have occasion to visit the Department. A proper regard for decency and modesty would seem to require that vaccination should be performed in a private rather than a public room.

We believe, however, that by merely calling attention to this subject the remedy will be provided.

NATH. HATHAWAY, Chairman,
W. N. SWIFT,
T. W. COOK,
} Board of Health.

Following is an abstract from the report of the Health Inspector, William E. Macomber:

NEW BEDFORD, January, 1891.

Board of Health:

GENTLEMEN,—As Health Inspector for the past year I beg leave to make the following report:

The number of nuisances caused by defective and overflowing privy vaults and cesspools abated, 143.

Defective sink drains abated, 34.

Filthy cellars and yards abated, 31.

Swill in ash barrels abated, 92.

Filthy pig pens and barn cellars abated, 16.

Filthy tenements abated, 6.

Filthy hen houses abated, 14.

Filthy sand catchers abated, 6.

Stagnant water in places abated, 8.

Garbage dumped in streets abated, 3.

Dead animals buried, 9.

Notices served, 109.

Number of inspections, not including the fortnightly inspection of pig pens, 1660.

Respectfully submitted.

WILLIAM E. MACOMBER,
Health Inspector.

Following is an abstract from the report of Louis H. Richardson, Inspector of Plumbing:

To the Board of Health of the City of New Bedford:

GENTLEMEN,—I herewith present my Report for the year ending December 31st, 1890.

During the past year 287 new buildings have been

plumbed. There have been 326 cases where alterations have been made in plumbing placed in former years.

Reinspections new and old work, 428.

All the work has been done in accordance with the rules of the Board of Health and each case received my personal attention.

I have also been called in several cases at the request of prominent physicians and other citizens to examine buildings in which cases of contagious disease had occurred, with the view of tracing the cause of the sickness to a defect in the drainage in said building. In some cases I considered the defect to be so glaring as to recommend that the drainage and plumbing in said building be replaced by that of an approved type.

I would most earnestly recommend the adoption of what is known as the "water test" for all new plumbing, this as far as possible to replace the "peppermint test" now in use.

It will not be possible to apply the "water test" in every case. Especially is this true in the alteration and addition to old work. While it is well known that the "peppermint test" is somewhat faulty in several particulars, yet it is the only practical inspection which can be applied in the latter case alluded to. But in all new work there is no possible reason that can be presented why the "water test" should not be the standard and there are overwhelming reasons which can be presented in favor of its adoption. It is the method used in all large cities. It is, therefore, in the interests of a better and more thorough grade of work, and its adoption will place our requirements to the level of the best recognized practice.

Respectfully submitted.

The following are the orders passed by the Board during the year 1890:

The sum of twenty-two hundred dollars ($2,200) was

appropriated to defray the expenses of the Board for the year 1890. T. Washburn Cook was reappointed a member of the Board of Health for the term of two years, ending February, 1892.

February 13, 1890. W. N. Swift, M. D., was reappointed City Physician for three years, ending February, 1893.

February 15, 1890. The board organized as follows: Nathaniel Hathaway, Chairman; W. N. Swift, Physician to the Board, and Quarantine Physician; T. Washburn Cook. William E. Macomber, Health Inspector. Each were elected by a unanimous vote.

Louis H. Richardson, as Inspector of Plumbing, and Susie J. Small, as Clerk, are appointed under civil service rules.

March 22, 1890. At the meeting held this day, it was voted that after May 1st, 1890, no wooden top tubs would be allowed in removing the contents of privy vaults or cesspools.

April 30, 1890. At the meeting of the Board held this day, it was ordered—That all vessels arriving from foreign ports, between the first day of May and the first day of November, 1890, are directed to go into quarantine until visited by the Quarantine Physician.

All pilots are required to observe and follow this order.

May 31, 1890. At a meeting of the Board held this day, the following regulations were passed:

"Whoever has knowledge of, or has good reason to suspect, the existence of a contagious disease among any domestic animals in this city, shall forthwith give notice thereof to the Board of Health. Persons having the care or custody of such suspected animals and having received an order for their restriction shall neither sell, trade, or in any way dispose of them, nor move or allow them to be moved from the place assigned, nor allow other ani-

mals not already exposed to come in contact with them till permitted so to do by the State Cattle Commissioners."

October 10, 1890. Dr. D. C. Ashley, Veterinary Surgeon, reported a case of glanders to this Board. This Board communicated with A. W. Cheever, Secretary of Cattle Commissioners. Mr. Cheever came at once to this city, and found the case a bad one. He ordered the horse killed and appointed Dr. Ashley to perform the work.

The number of privies removed during the year 1890 by order of the Board was 20.

Following are the number of permits granted by the Board during the year 1890:

To empty privy vaults and cesspools, 49.

To enter sewers, 304.

To reinter bodies, 119.

The number of applications for keeping swine during the year 1890 was 100. Of this number 85 were granted.

NATH. HATHAWAY,
Chairman.

DEATHS FOR THE YEAR 1890.

DISEASES.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Asthenia	1	..	..	2	1	1	1	..	..	..	2	1	9
Atelectasis	4	..	..	1	..	..	1	2	..	1	..	1	10
Apoplexy	6	2	5	2	5	4	4	5	2	1	2	3	41
Alcoholism	1	1	1	1	..	..	1	..	..	..	..	..	5
Asphyxia	..	1	..	..	..	..	..	..	..	..	..	..	1
Aneurism	..	..	..	..	1	..	..	..	..	..	..	..	1
Accident, drowning	..	..	..	..	1	2	..	..	..	..	2	..	5
Anæmia	..	..	..	..	..	1	1	..	..	1	1	..	4
Abscess, cerebral	..	..	..	..	..	..	..	1	..	..	..	..	1
Abscess, plevic	..	..	..	..	..	..	..	..	..	..	1	..	1
Bronchitis	5	..	5	8	5	2	2	..	1	1	1	1	31
Bronchitis, cap.	1	..	1	6	1	1	3	..	1	1	1	1	17
Brain disease	..	1	2	2	..	..	1	2	..	..	1	1	10
Burns	..	..	..	1	..	1	..	1	..	1	1	..	5
Cancer	3	..	2	1	1	1	1	..	2	..	1	2	14
Cancer of bladder	..	..	1	1	..	..	..	..	..	..	..	..	2
Cancer of breast	..	..	..	1	..	..	..	1	..	..	..	1	3
Cancer of bowels	..	..	..	1	..	..	1	..	..	..	..	..	2
Cancer of colon	..	..	..	..	..	..	..	1	..	..	..	..	1
Cancer of liver	..	1	1	..	..	..	2	..	1	1	..	1	7
Cancer of stomach	1	..	..	1	..	1	..	..	..	..	..	..	3
Cancer of uterus	1	2	..	..	..	..	..	..	..	2	..	1	6
Cyanosis	1	..	..	..	..	..	..	..	1	..	..	..	2
Convulsions	3	3	3	3	..	1	6	2	2	..	3	2	28
Cystitis	1	..	..	..	..	..	..	..	..	..	..	..	1
Congestion, pul.	..	..	1	..	..	..	..	..	..	..	..	..	1
Cirrhosis of liver	..	..	1	1	..	1	..	..	..	..	..	1	4
Croup	..	..	1	..	..	..	..	1	..	1	..	..	3
Caries of the vertibræ	..	..	..	1	..	..	..	..	..	..	..	..	1
Cholera infantum	..	..	..	..	..	1	17	26	10	3	..	..	57
Cerebral embolism	..	..	..	..	..	1	..	..	..	..	..	..	1
Cholera morbus	..	..	..	..	..	..	..	2	..	..	..	..	2
Debility	..	1	2	1	1	..	..	..	1	..	..	1	7
Debility, infan.	3	5	..	..	5	1	2	1	..	1	4	2	24
Diabetes mel.	2	1	..	..	..	1	1	..	1	..	1	..	7
Diphtheria	..	3	..	1	..	..	..	..	..	..	2	3	9
Dysentery	..	..	..	..	..	..	..	..	..	..	..	1	1
Dropsy	..	..	..	..	..	..	..	..	1	..	..	..	1
Dementia	..	..	..	..	..	..	..	..	..	..	1	..	1
Enteritis	2	..	..	..	..	..	2	6	1	..	..	..	11
Enteritis gastro.	..	..	..	..	..	1	..	1	..	1	..	..	3
Endo-carditis	1	2	..	..	..	..	..	..	..	1	..	..	4
Entero-collitis	..	1	..	1	..	..	5	9	3	..	2	1	22
Erysipelas	..	..	..	..	..	..	..	..	..	..	..	1	1
Eclampsia	..	..	..	..	..	1	..	..	1	..	..	..	2
Enteritis pseudo-mem.	..	..	..	..	..	..	..	..	1	..	..	..	1
Fever, typhoid	..	..	1	..	..	..	..	..	2	1	1	..	5
	36	24	27	36	21	22	51	61	31	17	27	25	278

DEATHS FOR THE YEAR 1890—*Continued.*

DISEASES.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Fever, intermittent	..	..	..	1	..	..	..	..	..	..	..	..	1
Fracture of leg	..	..	..	..	..	1	..	..	..	..	..	..	1
Gunshot wound	..	..	1	..	..	..	..	..	..	..	..	..	1
Gastritis	..	..	1	..	..	..	2	..	1	1	..	1	6
Gangrene of lung	..	..	..	1	..	..	..	..	..	..	..	..	1
Gangrene, senile	..	..	..	2	..	1	..	..	..	..	1	..	4
Glottis, spasm of	..	..	..	..	..	..	1	..	..	..	..	..	1
Heart disease	6	10	6	4	7	7	5	6	2	1	5	5	64
Hemorrhage	..	..	..	..	..	..	..	..	1	1	1	..	3
Hemorrhage from placenta	..	1	..	..	..	..	..	..	..	..	..	..	1
Hemorrhage, uterine	..	..	..	1	..	..	..	..	..	..	..	..	1
Hemorrhage, post partem	..	..	..	1	..	..	..	..	..	..	..	..	1
Hemorrhage, spinal	..	..	..	..	..	..	..	..	1	..	..	..	1
Hydrocephalus	1	..	2	..	1	..	..	..	..	..	..	..	4
Hæmoptysis	..	..	..	..	..	..	..	..	1	..	..	..	1
Influenza	1	..	..	..	..	..	..	..	..	..	..	..	1
Inanition	..	..	..	..	..	..	..	1	1	..	..	..	2
Imperforated rectum	..	.	..	..	..	..	..	..	1	..	..	..	1
Kidney, disease of	2	1	1	2	4	0	1	2	2	4	..	5	24
Liver, disease of	..	1	..	1	..	..	1	..	..	..	..	..	3
Lungs, emphysema of	..	..	..	..	..	..	..	..	..	..	..	1	1
Laryngitis	..	..	..	..	..	..	..	..	..	..	..	1	1
Laryngitis, strid	1	..	..	..	1	..	..	..	..	..	..	..	2
Lymphadenitis	..	..	..	..	..	..	..	1	..	..	..	..	1
Marasmus	1	2	..	..	1	..	..	4	2	1	1	..	12
Meningitis	3	..	1	2	2	..	4	1	..	1	3	..	17
Meningitis, cer. spinal	1	..	..	..	..	..	..	..	..	..	..	..	1
Meningitis, tub.	2	..	..	2	1	..	1	..	1	1	..	..	8
Meningitis, spinal	.	..	..	..	..	..	1	1	1	..	..	..	3
Measles	..	..	1	..	1	..	..	..	..	..	..	..	2
Melancholia	..	..	..	1	..	..	..	..	..	..	..	..	1
Multiple injuries	..	..	..	..	..	..	2	..	1	..	..	..	3
Miscarriage	..	..	..	..	..	..	..	1	..	..	..	..	1
Old age	4	2	1	4	3	..	..	2	..	1	..	2	19
Œdema of lungs	1	..	..	..	..	..	..	..	1	..	..	..	2
Paralysis	6	..	..	..	..	1	..	1	..	..	1	2	11
Pneumonia	13	9	4	7	1	5	..	1	..	3	7	4	54
Pneumonia broncho	2	1	1	2	..	..	..	1	..	..	1	1	9
Phthisis	10	7	6	6	7	7	6	8	5	4	3	5	74
Peritonitis	1	3	1	..	2	1	1	1	1	..	4	..	15
Premature birth	1	2	1	..	..	1	..	..	2	..	..	..	7
Pleurisy	..	1	..	..	..	..	..	..	..	..	..	..	1
Poison, lead	..	..	..	..	..	..	1	..	..	..	..	..	1
Pyæmia	..	..	..	..	..	..	..	1	..	..	..	..	1
Rheumatism	1	..	..	..	..	1	..	..	..	..	..	..	2
Suicide, drowning	1	..	..	..	..	..	..	..	..	..	..	..	1
Suicide, pistol shot	1	..	..	..	..	..	..	..	..	..	..	..	1
Suicide, cut throat	..	1	.	1	..	..	..	..	..	..	..	..	2
	59	41	27	38	31	25	26	32	24	18	27	27	375

DEATHS FOR THE YEAR 1890—*Concluded.*

DISEASES.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Suicide, poisoning	..	..	1	..	..	..	..	..	..	..	..	..	1
Septicæmia	..	..	1	..	3	1	1	..	1	..	..	..	7
Septicæmia, puer.	..	..	..	..	..	..	1	..	..	..	..	..	1
Suffocation	..	..	..	..	..	..	..	..	..	..	..	1	1
Tetanus	..	..	..	..	..	1	..	..	..	..	..	..	1
Tuberculosis	..	..	1	..	..	1	..	..	..	1	..	..	3
Thrombosis, cer.	..	..	..	..	..	..	..	..	1	..	..	..	1
Tumor, abdominal	..	..	..	..	..	..	..	..	1	..	..	..	1
Ulceration of bowels	..	..	..	..	..	..	..	..	1	..	..	..	1
Whooping cough	..	..	2	1	..	..	..	1	..	1	..	..	5
	0	0	5	1	3	3	2	1	4	2	0	1	22

Whole number of deaths 775.

Estimating the population at 41,000, the death rate is 18.87+ in each 1,000.

	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Stillborn	8	4	1	3	3	5	3	3	5	6	4	4	49
Deaths under 5 years	29	22	20	31	24	12	47	62	27	11	19	10	314

REPORT OF CONTAGIOUS DISEASES FOR 1890.

	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Typhoid fever	2	2	3	..	..	1	..	3	4	2	7	2	26
Scarlet fever	2	1	1	1	4	2	4	..	..	3	1	..	19
Diphtheria	..	5	1	5	..	1	..	..	3	5	5	8	33

During the past year 30 vaccinations have been made by the Physician to the Board.

REPORT OF NEW BEDFORD QUARANTINE FOR 1890.

From May 1st to November 1st, 1890, boarded 20 vessels arriving from foreign ports. No vessels were detained in quarantine, as they brought no cases of contagious diseases.

W. N. SWIFT, Quarantine Officer.

1891 — CITY DOCUMENT No. 8.

THE

AUDITOR'S ANNUAL REPORT

OF THE

Receipts and Expenditures

OF THE

CITY OF NEW BEDFORD,

INCLUDING

Report of City Treasurer and Collector of Taxes,

FOR THE YEAR 1890.

NEW BEDFORD:
MERCURY PUBLISHING COMPANY, PRINTERS TO THE CITY.
1891.

City of New Bedford,

Office of the City Auditor,

March 18, 1891.

To the Honorable the City Council of New Bedford:

Gentlemen, — Herewith I have the honor to submit the annual Report of all the Receipts and Expenditures of the city for the financial year ending on the first Monday in January, 1891, together with a statement of the city debt, a schedule of the real and personal property belonging to the city and the estimated value thereof, and such other statements as I have deemed of interest.

Very respectfully,

WILLIAM B. TOPHAM,

City Auditor.

AUDITOR'S REPORT.

JAMES H. HATHAWAY, ESQ.,
CITY TREASURER,

DR.

1890, Jan. 6. To balance of cash,		$25,625.43
Appropriations, general, 1890,	$526,386.88	
" " 1889,	6,673.30	
" " 1888,	4,283.58	
" " 1887,	2,140.89	
" special, 1889,	73,000.00	
Cadwell, W. H., Huntingdon, Pa.,	2,847.26	
Cemeteries,	3,620.00	
Cemetery funds,	3,765.00	
Com. Mass., Chap. 279,	3,219.75	
" " 301,	4,354.00	
Fire Department,	525.11	
Free Public Library, Trustees,	3,646.00	
" " Dog Fund,	1,268.55	
Highways and Streets,	25,707.74	
Incidentals,	28.60	
N. B. & Fairhaven Bridge,	181.86	
N. B. School Committee (Howland Fund),	3,000.00	
" " (Jona. Bourne Prize Fund),	60.00	
N. B. Water Works,	68,272.35	
Police Department,	6,507.30	
Poor Department,	9,860.75	
Public Debt,	5,056.78	
Public Schools, Incidentals,	12.25	
" " Pay of Teachers,	4.00	
" " Dog Fund,	1,268.56	
Real Estate Tax Account,	228.03	
Sewers, General Account,	3,782.68	
" Cedar Grove Street, No. 2,	64.32	
" Fifth Street,	13.36	
" Grape Street extension,	4.95	
" South Front Street, No. 2,	10.00	
" " " " 3,	22.55	
Temporary Loan,	550,000.00	
Unappropriated Funds,	85,731.24	1,395,547.64
		$1,421,173.07

AUDITOR'S REPORT.

In Account with the
City of New Bedford.

Cr.

Board of Health,	$2,119.16
Cemeteries,	8,394.16
City Stable and Lot,	1,955.10
Com. of Mass., Chap. 279,	6,327.50
" " 298 of 1889,	1,294.00
" " 301,	4,954.50
Court Judgments,	1,519.33
Dartmouth Street School House extension,	5,315.37
Division Street School House and Lot,	17,282.16
Engine House and Lot, Durfee Street,	5,355.98
Engine House at Head of the River,	879.46
Fire Department,	39,010.94
Fire Engine, Horses, &c., Durfee Street,	7,499.66
Free Public Library,	5,873.23
" " Trustees,	4,976.49
" " Dog Fund,	811.47
Highways and Streets,	129,850.53
Incidentals,	28,785.29
Lighting Streets,	29,076.35
N. B. and Fairhaven Bridge,	8,394.89
N. B. School Committee (Howland Fund),	4,013.75
" " (Jona. Bourne Prize Fund),	60.00
N. B. Water Works,	70,063.23
Parks and Squares,	1,656.17
Pleasant Street, widening of,	10,000.00
Police Department,	66,082.71
Police Telegraph Signal System,	1,918.10
Poor Department,	38,880.22
Printing, Binding, and Stationery,	7,178.29
Public Debt,	130,123.04
Public Schools, Incidentals,	31,299.64
" " Pay of Teachers,	83,906.26
" " Repairs of Buildings,	8,749.00
" " Dog Fund,	656.10
Real Estate Tax Account,	293.20
Repairs of City Property,	4,530.06
Salaries,	14,715.00
School House at Head of the River,	3,530.00

Sewers, General Account,	$35,872.11	
" Arnold and County Streets,	1,479.07	
" Bowditch Street, No. 2,	2,952.29	
" Cedar Grove Street, No. 2,	1,103.64	
" County Street, No. 3,	104.42	
" Fifth Street,	2,473.62	
" Fourth Street,	961.58	
" Fruit Street,	2,587.44	
" Grape Street extension,	7,065.85	
" Howard Street,	484.23	
" North Front Street,	499.57	
" Pearl and Willis Streets extension,	4,311.46	
" Pope Street, No. 2,	325.74	
" Prospect Street,	614.38	
" Rivet Street, No. 4,	142.47	
" Smith and Walden Streets,	1,032.15	
" South Front Street, No. 2,	12.96	
" South Front Street, No. 3,	296.42	
" South Second Street, No. 3,	243.74	
Sinking Funds,	27,800.00	
Temporary Loan,	515,000.00	
Truant School,	2,400.86	$1,395,094.34
Balance, cash in treasury,		26,078.73
		$1,421,173.07

EXPENDITURES IN DETAIL.

SALARIES.

DR.

Walter Clifford, Mayor,	$1,500.00	
James H. Hathaway, Treasurer and Collector,	2,400.00	
Daniel B. Leonard, City Clerk,	1,000.00	
William B. Topham, City Auditor,	1,000.00	
Lemuel LeB. Holmes, City Solicitor,	700.00	
William R. Sherman, Sealer Weights and Measures,	365.00	
Charles D. Tuell, Chairman Assessors,	1,000.00	
William A. Russell, Assessor,	750.00	
John A. Ruggles, Assessor,	750.00	
William A. Mackie, Clerk Common Council,	250.00	
Augustus D. Piper, City Messenger,	750.00	
Isaac Barnes, Bell Ringer,	125.00	
James S. Kelley, Superintendent City Clock,	75.00	
Henry L. Pitman, Harbor Master,	250.00	
Daniel C. Ashley, Inspector Milk and Provisions,	600.00	
Frederick Macy, Inspector of Buildings,	200.00	$11,715.00
BOARD OF HEALTH:		
Dr. William N. Swift,	$300.00	
Nathaniel Hathaway,	300.00	
Thomas W. Cook,	300.00	900.00
REGISTRARS OF VOTERS:		
Thomas F. Desmond,	$400.00	
Emanuel Sullavou,	400.00	
Herbert A. Blackmer,	400.00	
Daniel B. Leonard,	300.00	1,500.00
Amount carried forward,		$14,115.00

Amount brought forward,		$14,115.00
Board of Aldermen:		
Luther G. Hewins, Jr.,	$100.00	
Charles F. Shaw,	100.00	
Benjamin F. Brownell,	100.00	
Stephen A. Brownell,	100.00	
James Delano,	100.00	
Ezekiel C. Gardiner,	100.00	$600.00
		$14,715.00

Cr.

By appropriation,	$14,715.00

PUBLIC SCHOOLS—PAY OF TEACHERS.

Dr.

HIGH SCHOOL.

Ray Greene Huling,	$2,724.25	
Charles T. Bonney, Jr.,	1,600.00	
Charles R. Allen,	1,440.00	
Sarah D. Ottiwell,	933.52	
Elizabeth P. Briggs,	629.40	
Lydia J. Cranston,	897.60	
Mary E. Austin,	888.00	
Lucretia N. Smith,	900.00	
Emma K. Shaw,	770.00	
Emma H. Wheeler,	480.00	
Mabel A. Spooner,	438.00	
Helen L. Hadley,	260.00	
Mabel W. Cleveland,	136.50	
Arthur J. Cumming,	268.40	
Florence A. Cleaves,	206.25	
John K. McAfee,	300.00	
Substitutes:		
Harriet S. Gardner,	188.88	
Mabel Washburn,	12.00	$13,072.80

GRAMMAR SCHOOLS.

Fifth Street:

Allen F. Wood,	$1,797.00	
Mary A. Kane,	549.00	
Sarah A. Carr,	261.25	
Sarah E. Stoddard,	550.00	
Mary E. Allen,	546.00	
Lydia A. Macreading,	550.00	
Elizabeth B. Brightman,	306.00	
Helen L. Hadley,	330.00	
Janet Hunter,	550.00	
Sarah W. Almy,	192.50	
Grace L. Carver,	180.00	
Lena B. Chubbuck,	517.00	
Nancy H. Brooks,	535.00	
Harriet F. Hart,	357.50	

Grace H. Potter,	$97.34	
Blanche W. Sheldon,	24.00	
Kate Sweet,	4.00	
Annie M. Carpenter,	28.00	
Substitutes:		
Myra A. Leach,	12.00	
Mary E. Pasho,	28.00	
Mabel Bennett,	18.00	
Eleanor V. Tripp,	10.00	
Belle M. Almy,	2.00	
Annie L. Brownell,	2.00	
Daisy M. Butts,	2.00	
Cora B. Cleveland,	1.00	$7,449.59
MIDDLE STREET:		
George H. Tripp,	$1,800.00	
Katharine Commerford,	357.50	
Mary R. Hinckley,	550.00	
Agnes J. Dunlap,	467.50	
Clara S. Vincent,	550.00	
Harriet F. Hart,	187.50	
Mabel W. Cleveland,	434.50	
Maria B. Clark,	549.00	
Lucy B. Fish,	546.00	
Clara B. Watson,	545.63	
Lucy D. Ashley,	385.25	
Etta M. Abbott,	41.25	
Substitutes:		
Grace L. Carver,	50.00	
Anna I. Dexter,	60.00	
Susie P. Diman,	49.00	
Rachel L. Denham,	5.00	
Mary E. Pasho,	3.00	
Elizabeth P. Bennett,	3.00	
Edith K. Weeden,	2.00	
Alice L. Taylor,	1.00	
Mabel Bennett,	1.00	6,588.13
PARKER STREET:		
Charles E. E. Mosher,	$1,815.00	
Eliza J. D. Shepherd,	330.00	
Martha A. Hemenway,	550.00	

Helen M. Gordon,	$330.00	
Anna L. Jennings,	550.00	
Emma A. McAfee,	550.00	
Josephine Almy,	548.00	
Emma C. Nash,	550.00	
May L. Pettey,	316.32	
Mary E. Sturtevant,	531.00	
Mariana N. Richmond,	519.00	
Emma B. Allen,	508.00	
Emily A. Delano,	471.50	
Lizzie E. Omey,	460.00	
Emma B. McCullough,	455.50	
H. Jennie Kirby,	200.00	
Anna I. Dexter,	290.00	
Substitutes:		
Annie L. Brownell,	58.00	
Helen M. Gordon,	8.00	
Alice L. Taylor,	6.00	
Lena B. Hamblin,	6.00	
Carrie E. Footman,	6.00	
Mary M. Robinson,	2.00	
Gertrude M. Robinson,	2.00	$9,062.32
THOMPSON STREET:		
Katharine N. Lapham,	$768.00	
Mary A. Macy,	550.00	
Abby F. Sullivan,	550.00	
Chella F. Carpenter,	283.00	
Lena B. Hamblin,	180.00	
Cora B. Cleveland,	157.13	
Substitutes:		
Gertrude M. Robinson,	8.00	
Annie F. Smith,	2.00	
Mary E. Pasho,	2.00	
Lena B. Hamblin,	2.00	2,502.13
HARRINGTON TRAINING SCHOOL:		
Josephine B. Stuart,	$1,227.00	
Anna W. Braley,	670.00	
Alice A. Taylor,	14.40	
Annie F. Smith,	15.20	
Annie L. Brownell,	15.20	

Alice P. Terry,	$59.20	
Anna I. Dexter,	16.00	
Lucy D. Ashley,	16.00	
Sara L. Tallman,	48.40	
Mary G. Bonney,	62.40	
Myra A. Leach,	82.60	
Rachel L. Denham,	81.80	
Edith K. Weeden,	75.80	
Gertrude M. Robinson,	80.80	
Lena B. Hamblin,	83.10	
Grace Covell,	82.00	
Grace Carver,	79.00	
Mary E. Pasho,	74.00	
Harriet S. Gardner,	61.60	
Kate Sweet,	80.16	
Daisy M. Butts,	104.40	
Susie P. Diman,	97.90	
Carry E. Footman,	107.60	
Isabel Horr,	99.30	
Regina M. Paul,	109.20	
Mary M. Robinson,	117.20	
Edith M. B. Taber,	111.90	
Belle M. Almy,	43.50	
Elizabeth Bennett,	44.70	
Mabel Bennett,	37.80	
Mabel Hathaway,	45.30	
Eleanor V. Tripp,	43.50	
Grace H. Potter,	21.37	$3,908.33

PRIMARY SCHOOLS.

Thompson Street:

Susan M. Tompkins,	$550.00	
Annie C. O'Connor,	497.50	
Helen J. Kirke,	416.50	
Grace H. Potter,	285.00	
Sarah A. Winslow,	409.20	
Annie L. Brownell,	160.00	
Substitutes:		
Carrie E. Footman,	27.20	
Rachel L. Denham,	24.00	
Mary G. Bonney,	8.00	
Lena B. Hamblin,	4.00	
Alice A. Taylor,	1.60	
Mary E. Pasho,	.80	
Betsey B. Winslow,	.80	2,384.60

LINDEN STREET:		
Elizabeth P. Spooner,	$550.00	
Lucy S. Leach,	500.00	
Isabella Luscomb,	500.00	
Isadora Foster,	494.75	
Substitutes:		
Regina M. Paul,	3.20	
Myra A. Leach,	.80	
Edith M. B. Taber,	.80	
Susie P. Diman,	.80	$2,050.35
MERRIMAC STREET:		
Sarah H. Hewins,	$550.00	
Addie West,	492.80	
Hattie S. Damon,	474.20	
Substitutes:		
Susie P. Diman,	.80	
Mary M. Robinson,	7.20	1,525.00
MAXFIELD STREET:		
Mary B. White,	$550.00	
Sarah E. Field,	292.40	
Annie E. Pearce,	500.00	
Bessie P. Nash,	485.00	
Substitutes:		
Mary E. Pasho,	160.00	
Gertrude M. Robinson,	16.00	
Edith K. Weeden,	1.60	
Daisy M. Butts,	1.60	2,006.60
CEDAR STREET:		
Annie S. Homer,	$555.13	
Abby D. Whitney,	232.50	
Bessie P. Peirce,	500.00	
Willetta B. Nickerson,	485.00	
Annie L. Edwards,	475.00	
Substitutes:		
Edith K. Weeden,	168.00	
Daisy M. Butts,	32.00	
Rachel L. Denham,	14.40	
Grace H. Potter,	11.87	
Belle M. Almy,	8.00	
Edith M. B. Taber,	8.00	2,489.90

ACUSHNET AVENUE:

Jane E. Gilmore,	$600.00	
Sarah E. Kirwin,	500.00	
Susan M. Lucas,	492.00	
Helen C. Allen,	500.00	
Clara C. M. Gage,	467.00	
Carrie S. Silva,	435.00	
Annie F. Smith,	81.60	
Annie L. Brownell,	80.00	
Rachel L. Denham,	86.40	
Regina M. Paul,	32.00	
Substitute:		
Sara L. Tallman,	14.40	$3,288.40

WILLIAM STREET:

Eleanor Commerford,	$550.00	
Amelia Lincoln,	500.00	
Mary J. Graham,	500.00	
Kate E. Cleary,	500.00	2,050.00

FOURTH STREET:

Sarah H. Cranston,	$583.40	
Eliza H. Sanford,	500.00	
Sarah E. Sears,	484.00	
Ida G. Howard,	125.00	
Annie L. Macreading	457.63	
Alice A. Taylor,	300.00	
Myra A. Leach,	156.80	
Cora B. Cleveland,	80.00	
Substitutes:		
Grace H. Potter,	2.37	
Edith M. B. Taber,	1.60	2,690.80

DARTMOUTH STREET:

Isadore F. Eldridge,	$560.00	
M. Eva Schwall,	500.00	
Sarah H. Kelley,	470.40	
Annie M. Carpenter,	462.60	
Annie F. Smith,	256.40	
Grace H. Potter,	33.23	

Substitutes:		
Abby R. Johnson,	$29.60	
Gertrude M. Robinson,	1.60	
Susie P. Diman,	.80	
Annie L. Brownell,	.80	
Lizzie Bennett,	.80	$2,316.23
GROVE:		
Jane C. Thompson,	$550.00	
Sarah E. Tuell,	499.20	
Hattie L. Finlan,	500.00	
Nellie W. Davis,	500.00	
Mary Barstow,	435.00	
Substitute:		
Myra A. Leach,	.80	2,485.00
CEDAR GROVE STREET:		
Lucy F. Clark,	$575.00	
Carrie A. Shaw,	475.00	
Flora E. Estes,	460.60	
Mary J. Eldridge,	500.00	
Annie G. Brawley,	410.00	
Grace H. Potter,	23.82	
Substitutes:		
Sara L. Tallman,	12.80	
Alice P. Terry,	1.60	2,458.82
NORTH MILL:		
Emma R. Wentworth,	$666.50	
Cora B. Cleveland,	76.00	
Nannie P. Slocum,	44.00	
Kate Sweet,	35.00	
Substitute:		
Regina M. Paul,	50.00	871.50
SOUTH MILL:		
Lucy J. Remington,	$723.00	
Gertrude M. Robinson,	100.00	
Alice M. Holdsworth,	88.00	
Alice A. Taylor,	20.00	

Substitute:		
Annie L. Brownell,	$4.80	$935.80

COUNTRY SCHOOLS.

ACUSHNET:		
Charlotte C. Carr,	$672.00	
Caroline O. Pierce,	475.00	
Belle B. Wheeler,	427.00	
Substitutes:		
Regina M. Paul,	29.60	
Anna I. Dexter,	8.00	1,611.60
CANNONVILLE:		
Addie J. McFarlin,	$525.00	
Lillie C. Tillinghast,	425.14	
Substitute:		
Edith K. Weeden,	9.60	959.74
CLARK'S POINT:		
Annie B. Parker,	$420.00	
Substitute:		
Edith K. Weeden,	2.00	422.00
NORTH:		
Mary I. Ashley,	$550.00	550.00
PLAINVILLE:		
Mary Chase,	$285.00	
Mary E. Haney,	190.00	475.00
ROCKDALE:		
Susan C. Graffam,	$466.00	
Substitute:		
Alice P. Terry,	4.00	470.00

SPECIAL TEACHERS.

DRAWING:

Adelaide B. Hyde,	$741.00	
Florence A. Cleaves,	175.00	$916.00

SINGING:

Fred L. Diman,	$613.75	
F. H. Butterfield,	565.25	1,179.00

SEWING:

Carrie H. Richmond,	$525.00	
Eliza A. Smalley,	266.61	
Gertrude H. Leonard,	265.50	1,057.11

EVENING SCHOOLS.

FIFTH STREET:

Oliver W. Cobb,	$240.00
Mrs. S. C. Whelden,	130.00
Mrs. C. T. Johnson,	107.00
Mary Crowell,	82.50
Lena B. Hamblin,	39.87
Harriet S. Gardner,	13.75
Grace H. Potter,	66.00
Caroline E. B. Wilkinson,	34.37
Sarah A. Winslow,	44.00
Jane E. Gilmore,	64.62
Mary G. Bonney,	34.37
Julia A. Fay,	66.00
Annie F. Smith,	108.62
Alice A. Taylor,	108.62
Annie L. Brownell,	42.62
Nancy H. Brooks,	66.00
Nellie H. Cook,	110.00
M. Eva Schwall,	42.62
Mary E. Pasho,	110.00
Sarah E. Stoddard,	110.00
Mary E. Barstow,	110.00
Elizabeth B. Brightman,	42.62
Eleanor V. Tripp,	66.00
Mary A. Kane,	68.74
Alice P. Terry,	30.25
Annie B. Parker,	16.50
Lucy D. Ashley,	6.87

Substitutes:

Clara B. Watson,	$1.37	
Sarah A. Carr,	1.37	$1,964.93

MERRIMAC STREET:

Joseph P. Kennedy,	$200.00	
Katharine N. Lapham,	7.00	
Grace H. Potter,	44.00	
Regina M. Paul,	110.00	
Edith K. Weeden,	110.00	
Gertrude M. Robinson,	41.25	
Janet Hunter,	60.50	
Bessie P. Peirce,	49.50	

Substitute:

Emma R. Wentworth,	5.50	627.75

CEDAR GROVE STREET:

Allen F. Wood,	$237.00	
Ruby M. Tripp,	64.00	
Robert A. Washburn,	66.00	
Annie G. Brawley,	108.62	
Grace L. Carver,	110.00	
Lizzie Bennett,	66.00	
Sarah Bowen,	44.00	
Nannie P. Slocum,	107.25	
Daisy M. Butts,	66.00	
Agnes J. Dunlap,	44.00	
Addie J. McFarlin,	110.00	
Mary R. Hinckley,	110.00	
Abby R. Johnson,	108.62	
Lydia A. Macreading,	108.62	
Sarah E. Kirwin,	110.00	
Susie P. Diman,	66.00	
Lucy D. Ashley,	42.62	
Carrie A. Shaw,	60.50	
Clara S. Vincent,	44.00	
Mabel W. Cleveland,	44.00	
Myra A. Leach,	67.37	

Substitute:

Mary A. Kane,	2.75	1,787.35

PARKER STREET:		
George H. Tripp,	$240.00	
Nathaniel W. Gifford,	58.00	
Sara L. Tallman,	110.00	
Lillie C. Tillinghast,	5.50	
Annie B. Parker,	93.50	
Ida A. McAfee,	110.00	
Mary F. Wilde,	110.00	
Rachel L. Denham,	103.12	
Myra A. Leach,	17.88	
Willetta B. Nickerson,	33.00	
Agnes J. Dunlap,	66.00	
Belle M. Almy,	63.25	
Lucy B. Fish,	66.00	
Kate Sweet,	33.00	
Emma R. Wentworth,	16.50	
Substitute:		
Josephine Almy,	1.37	$1,127.12
CENTRAL:		
Mrs. S. W. Wilde,	$64.00	
Cora B. Cleveland,	44.00	108.00
EVENING DRAWING:		
Arthur J. Cumming,	$108.36	
Florence A. Cleaves,	150.00	
George A. Stetson,	123.00	
George H. Nye,	129.00	510.36
		$83,906.26
To transfer to balance,		97.74
		$84,004.00

CR.

By appropriation,	$81,000.00	
Appropriation, special,	3,000.00	
Cash receipts, as per Treasurer's report,	4.00	$84,004.00

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1891, Jan. 5. To balance,		5,758.94
		$10,735.43

Cr.

1890, Jan. 6. By balance,	$7,089.43	
By cash receipts, as per Treasurer's report,	3,646.00	$10,735.43

Cr.

1891, Jan. 5. By balance,	$5,758.94

APPROPRIATIONS, GENERAL, 1890.

Dr.

Board of Health,	$2,200.00	
Cemeteries,	1,600.00	
Com. of Mass., Chap. 279,	3,000.00	
" Chap. 298 of 1889,	1,000.00	
Court Judgments,	2,778.13	
Fire Department,	35,000.00	
Free Public Library,	5,800.00	
Highways and Streets,	83,000.00	
Incidentals,	4,761.00	
Lighting the Streets,	29,000.00	
N. B. & Fairhaven Bridge,	5,000.00	
N. B. Water Works,	12,000.00	
Parks and Squares,	1,500.00	
Police Department,	57,000.00	
Poor Department,	30,000.00	
Printing, Binding, and Stationery,	5,000.00	
Public Debt,	121,045.87	
Public Schools, Incidentals,	25,000.00	
" " Pay of Teachers,	81,000.00	
" " Repairs of Buildings,	2,000.00	
Repairs of City Property,	2,000.00	
Salaries,	14,715.00	
Sewers, General Account,	1,000.00	
Sinking Funds,	27,800.00	
Truant School,	1,100.00	$554,300.00

Cr.

By cash receipts, as per Treasurer's report,	$526,386.88	
1891, Jan. 5. By balance,	27,913.12	$554,300.00

Dr.

1891, Jan. 5. To balance,	$27,913.12

APPROPRIATIONS, GENERAL, 1889.

Dr.

1890, Jan. 6. To balance,		$31,839.07

Cr.

By cash receipts, as per Treasurer's report,	$6,673.30	
1891, Jan. 5. By balance,	25,165.77	$31,839.07

Dr.

1891, Jan. 5. To balance,		$25,165.77

APPROPRIATIONS, GENERAL, 1888.

Dr.

1890, Jan. 6. To balance,		$11,380.50

Cr.

By cash receipts, as per Treasurer's report,	$4,283.58	
1891, Jan. 5. By balance,	7,096.92	$11,380.50

Dr.

1891. Jan. 5. To balance,		$7,096.92

APPROPRIATIONS, GENERAL, 1887.

Dr.

1890, Jan. 6.	To balance,	$2,140.89

Cr.

By cash receipts, as per Treasurer's report,		$2,140.89

APPROPRIATIONS, SPECIAL, 1890.

Dr.

Cemeteries,	$2,200.00	
Division Street School House and Lot,	35,141.00	
Engine House and Lot, Durfee Street,	241.41	
Engine House at Head of the River,	850.00	
Fire Department,	500.00	
Fire Engine, Horses, &c., Durfee Street,	7,500.00	
Highways and Streets,	17,000.00	
Incidentals,	21,400.00	
N. B. and Fairhaven Bridge,	3,500.00	
Pleasant Street, widening of,	10,000.00	
Police Telegraph Signal System,	16,150.00	
Public Schools, Incidentals,	7,000.00	
" " Pay of Teachers,	3,000.00	
" " Repairs of Buildings,	6,750.00	
Printing, Binding, and Stationery,	2,000.00	
Poor Department,	1,500.00	
Repairs of City Property,	1,898.80	
Truant Schools,	851.00	$137,482.21
Sewers, General Account,	$31,000.00	
" Arnold and County Streets,	1,479.07	
" Bowditch Street, No. 2,	3,000.00	
" Bowditch Street, No. 3,	1,000.00	
" Cedar Grove Street, No. 2,	1,075.02	
" County Street, No. 3,	104.42	
" County Street, No. 4,	300.00	
" Fifth Street,	2,460.50	
" Fourth Street,	1,000.00	
" Fruit Street,	2,563.02	
" Grape Street extension,	10,000.00	
" Howard Street,	600.00	
" North Front Street,	600.00	
" Pearl and Willis Streets extension,	3,894.42	
" Pope Street, No, 2,	400.00	
" Prospect Street,	650.00	
" Rivet Street, No. 4,	250.00	
" Smith and Walden Streets,	1,200.00	
" South Front Street, No. 2,	2.96	
" South Front Street, No. 3,	350.00	
" South Second Street, No. 3,	300.00	
" Sycamore Street, No. 2,	1,800.00	64,029.41
		$201,511.62

Cr.

By transfer from unappropriated funds,	$52,880.81	
1891, Jan. 5. By balance,	148,630.81	$201,511.62

Dr.

1891, Jan. 5. To balance,	$148,630.81

APPROPRIATIONS, SPECIAL, 1889.

Dr.

1890, Jan. 6. To balance,	$93,556.07

Cr.

By cash receipts, as per Treasurer's report,	$73,000.00	
Transfer from unappropriated funds,	20,556.07	$93,556.07

WILLIAM H. CADWELL, HUNTINGDON, PA.

Cr.

By cash receipts, as per Treasurer's report,	$2,847.26

COMMONWEALTH OF MASSACHUSETTS.

Chapter 279 (Formerly Chapter 252).

Dr.

1890, Jan. 6. To balance,	$3,841.15	
To amount paid by city for State aid,	6,327.50	$10,168.65

Cr.

By appropriation,	$3,000.00	
By cash receipts, as per Treasurer's report,	3,219.75	$6,219.75
1891, Jan. 5. By balance,		3,948.90
		$10,168.65

Dr.

1891, Jan. 5. To balance,	$3,948.90

COMMONWEALTH OF MASSACHUSETTS.

Chapter 298 of 1889.

Dr.

1890, Jan. 6. To balance,	$226.00	
To amount paid by the city for State aid,	1,294.00	$1,520.00

Cr.

By appropriation,	$1,000.00	
Transfer to balance,	520.00	$1,520.00

COMMONWEALTH OF MASSACHUSETTS.

Chapter 301.

Dr.

1890, Jan. 6. To balance,	$4,370.05	
To amount paid by city for State aid,	4,954.50	$9,324.55

Cr.

By cash receipts, as per Treasurer's report,	$4,354.00	
1891, Jan. 5. By balance,	4,970.55	$9,324.55

Dr.

1891, Jan. 5. To balance,	$4,970.55

ENGINE HOUSE NO. 5 ALTERATIONS.

Cr.

1891, Jan. 5. By balance,	$3,500.00

HARRINGTON SCHOOL HOUSE AND LOT.

Dr.

To transfer to incidentals,	$225.00

Cr.

1890, Jan. 6. By balance,	$225.00

NEW BEDFORD SCHOOL COMMITTEE.

(JONATHAN BOURNE PRIZE FUND.)

Dr.

John Eldridge, Jr., Chairman, for prizes,	$60.00	
1891, Jan. 5. To balance,	30.00	$90.00

Cr.

1890, Jan. 6. By balance,	$30.00	
By cash receipts, as per Treasurer's report,	60.00	$90.00

Cr.

1891, Jan. 5. By balance,	$30.00

PLEASANT STREET, WIDENING OF.

Dr.

Heirs of Joseph Brownell,	$10,000.00

Cr.

By special appropriation,	$10,000.00

REAL ESTATE TAX ACCOUNT.

Dr.

1890, Jan. 6. To balance,	$297.58	
To paid taxes and costs on real estate,	293.20	$590.78

Cr.

By paid up taxes, as per Treasurer's report,	$228.03	
1891, Jan. 5. By balance,	362.75	$590.78

Dr.

1891, Jan. 5. To balance,	$362.75

SINKING FUNDS.

Dr.

To paid Sinking Fund Commissioners,	$27,800.00

Cr.

By appropriation,	$27,800.00

TEMPORARY LOAN.

Dr.

To paid loans,	$515,000.00	
1891, Jan. 5. To balance,	125,000.00	$640,000.00

Cr.

1890, Jan. 6. By balance,	$90,000.00	
By sundry loans,	550,000.00	$640,000.00

Cr.

1891, Jan. 5. By balance,	$125,000.00

PUBLIC SCHOOLS—REPAIRS OF BUILDINGS.

Dr.

Acushnet:		
Chace, Ezra B.,	$1.76	
N. B. Water Works,	40.13	
Pope, A. P.,	197.65	$239.54
Acushnet Avenue:		
Chace, Ezra B.,	$68.75	
Duff, David & Son,	.50	
Reed, E. W.,	110.00	179.25
Bonney Street Church:		
Jenney & Buffington,		6.33
Cannonville:		
Swift, P. R.,	$22.60	
Tillinghast, W. A.,	14.56	
Tripp, H. C.,	19.63	
Washburn,	19.64	76.43
Cedar Street:		
Gifford, T. J. & Co.,	$10.90	
Hatch, G. E.,	8.09	
Lewis, B. F.,	9.32	
N. B. Boiler & Machine Co.,	8.04	
Sturtevant & Parker,	2.89	
Tripp, H. W.,	37.10	76.34
Cedar Grove Street:		
Bowker & Tripp,	$5.22	
Haskins, Orville & Sons,	2.24	
Lowe, S. C.,	3.70	
Mahoney Bros.,	40.00	
Pope, A. P.,	4.15	
Sullivan, M. H.,	45.86	101.17
Clark's Point:		
Sullivan, J. B.,	$5.75	
White, Phineas,	4.09	9.84

DARTMOUTH STREET:

Bertram, Douglass,	$9.60	
Bliss, G. C.,	71.61	
Blossom, A. F.,	7.17	
Chace, Ezra B.,	453.35	
Faisneau, G. E.,	3.51	
Hayden, W. G.,	21.28	
Hazzard, J. B.,	6.30	
Jenney & Buffington,	534.07	
Maxfield, William & Son,	88.92	
Moulton, A. G.,	29.25	
N. B. Water Works,	12.74	
Old Colony Railroad Co.,	7.89	
Perkins & Chase,	54.50	
Pierce & Sowle,	16.31	
Sherman, C. R. & Son,	1.75	
Slocum, F. R.,	17.20	
Sullings, Kingman & Co.,	2.00	
Taylor, H. J. & Son,	1.14	
Tripp, S. A.,	1.00	
Watson & Fuller,	52.67	
Whitcomb, A. G.,	411.35	
Wing, C. F.,	6.60	
Wood, Brightman & Co.,	44.22	
Wright, E. E.,	1.00	$1,855.43

FIFTH STREET:

Chace, Ezra B.,	$30.08	
Hart & Akin,	2.25	
Maxfield, William & Son,	1.20	33.53

FOURTH STREET:

Chace, Ezra B.,	$266.55	
Gifford's Brass Foundry,	130.47	
Jenney & Buffington,	123.37	
N. B. Gas Light Co.,	10.32	
Pierce, A. B.,	5.85	
Snow, R. W.,	1.47	
Street Department,	.50	
Tripp, S. A.,	1,112.70	1,651.23

GROVE:

Chace, Ezra B.,	$2.86	
Kern & Wright,	1.00	$3.86

HARRINGTON:

Bliss, G. H.,	$305.59	
Caswell, W. H.,	123.00	
Jenney & Buffington,	122.81	
Rodgers, James,	96.25	
Street Department,	.50	
West, W. R.,	38.63	686.78

HIGH:

Bliss, G. H.,	$81.43	
Hart & Akin,	3.75	
Jenkins, B. S.,	.90	
N. B. Boiler & Machine Co.,	37.75	
Peirce, William,	9.00	
Perkins & Chase,	8.72	
Sawyer, S. P.,	15.05	
Sturtevant, W. F.,	11.35	
Sturtevant & Parker,	.90	
Wilson, D. W.,	22.39	191.24

HIGH STREET:

Haskins, Orville & Sons,	$.80	
Mason, J. L. G.,	2.01	2.81

KEMPTON STREET:

Look, J. W.,		6.00

LINDEN STREET:

Lowe, S. C.,	$76.40	
Sullivan, J. B.,	44.23	
Sullivan, M. H.,	25.54	146.17

MAXFIELD STREET:

Lewis, B. F.,	$14.00	
Phinney, Nathan,	12.05	
Sturtevant & Sherman,	5.64	31.69

MERRIMAC STREET:

Lowe, S. C.,	$661.93	
N. B. Water Works,	16.14	
Sullivan, J. B.,	249.62	
Sullivan, M. H.,	268.83	
Street Department,	29.15	
West, W. R.,	131.50	$1,357.17

MIDDLE STREET:

Drake, A. B.,	$9.00	
Hayden, W. G.,	60.61	
Lewis, B. F.,	.40	
Pope, A. P.,	180.81	
Wheaton, Nathan,	600.54	851.36

NORTH:

Ashley, Mary P.,		5.00

PARKER STREET:

Drake, A. B.,	$5.50	
Duff, David & Son,	4.00	
Haskins, Orville & Sons,	115.72	
Hatch, G. E.,	502.50	
Holmes, D. W.,	393.25	
N. B. Boiler & Machine Co.,	19.08	
Pope, A. P.,	40.89	
Tripp, H. C.,	11.70	1,092.64

ROCKDALE:

Mason, J. L. G.,		5.15

THOMPSON STREET:

Lewis, B. F.,	$26.18	
N. B. Boiler and Machine Co.,	47.13	
Pierce, C. D.,	2.10	75.41

WILLIAM STREET:

Coggeshall, Maxfield & Co.,	$.70	
Haskins, Orville & Sons,	22.48	
Street Department,	10.80	
Taber, R. A.,	15.50	49.48

MISCELLANEOUS:

Haskins, Orville & Sons,	$.50	
Mason, J. L. G.,	10.35	
Peirce, William,	4.30	$15.15
		$8,749.00
To transfer to balance,		1.00
		$8,750.00

CR.

By appropriation,	$2,000.00	
Appropriation, special,	6,750.00	$8,750.00

PUBLIC SCHOOLS — INCIDENTALS.

Dr.

Salaries:		
William E. Hatch, superintendent and secretary,	$2,750.00	
Emma M. Almy, clerk,	600.00	
Henry Smith, truant officer,	800.00	$4,150.00
Pay Rolls:		
Janitors, sweepers, etc.,		10,191.01
Books and Stationery:		
Albee, A. D.,	$4.00	
Ambrose, F. M.,	41.25	
American Book Co.,	411.35	
Anthony & Sons,	34.32	
Appleton, D. & Co.,	18.00	
Barnes, A. S. & Co.,	23.25	
Boston School Supply Co.,	167.95	
Dews, Edwin,	3.75	
Effingham, Maynard & Co.,	22.80	
Einier & Amend,	55.35	
Frost & Adams,	242.62	
Garey, P. A. & Co.,	4.85	
Ginn & Co.,	51.42	
Harper & Bros.,	75.38	
Heath, D. C. & Co.,	70.84	
Hutchinson, H. S. & Co.,	1,477.90	
J. B. Lippincott Co.,	110.00	
Kane, D. J. & Bro.,	72.26	
Lee & Shepard,	18.34	
Perry, G. S.,	223.65	
Prang Educational Co.,	32.16	
Richter, G. H. & Co.,	12.24	
Schoenhof, Carl,	6.72	
Sherman, C. R. & Son,	3.47	
Taber, R. W.,	7.50	
Thompson, Brown & Co.,	76.47	
Thorpe & Adams Mfg. Co.,	7.20	
Ware, William & Co.,	966.50	
Weaver Printing & Mfg. Co.,	388.80	4,630.34

FUEL:

Ashley, Mary P.,	$23.75	
Borden, H. T.,	7.19	
Crapo's Steam Mill,	27.00	
Hart & Akin,	3,919.01	
Hathaway Bros.,	9.00	
Holmes, A. W.,	20.75	
Notter, John,	1.00	
Phillips Lawson,	181.34	
Sears, A. B.,	3.90	$4,192.94

REPAIRS OF SCHOOL HOUSES:

Almy & Hitch,	$9.55	
Ashley, Mary P.,	6.00	
Bliss, G. H.,	81.30	
Caswell, W. H.,	194.48	
Chace, Ezra B.,	385.26	
Coggeshall, Maxfield & Co.,	11.59	
Hart & Akin,	22.52	
Haskins, Orville & Sons,	19.18	
Hayden, W. G.,	9.77	
Jenney, P. P. & Son,	8.17	
Lewis, B. F.,	306.23	
Lowe, S. C.,	13.20	
Other, Samuel,	5.60	
Penney, E. F.,	1.05	
Peirce, A. B.,	36.40	
Pope, A. P.,	20.54	
Potter, G. A.,	6.60	
Sherman, C. R. & Son,	11.15	
Sherman, J. H.,	8.70	
Snow, R. W.,	143.27	
Sturtevant, W. F.,	4.60	
Sullivan, M. H.,	8.45	
Swift, P. R.,	1.60	
Thompson, Charles,	24.17	
Tripp, H. C.,	63.63	
Tripp, H. W.,	24.85	
Vinal, F. H.,	15.00	
West, W. R.,	49.42	
Wood, Brightman & Co.,	12.10	1,504.38

SUPPLIES:

Acushnet Coöperative Association,	$1.00
Acushnet Iron Co.,	60.24
Almy, J. T.,	1.25
Almy & Hitch,	14.58
American Bank Note Co.,	50.00
Baylies, J. B.,	17.00
Beetle, R.,	18.01
Bliss & Nye,	7.93
Boston School Supply Co.,	3.50
Briggs & Lawrence,	41.15
Brightman & Washburn,	48.35
Brownell & Co.,	17.00
Central Union Association,	3.31
Clarke, Lothrop,	15.22
Cobb, G. A.,	20.41
Conant, Ball & Co.,	33.75
Cooley, W. H.,	33.10
Cranston, O. W.,	6.85
Cummings, C. S. & B.,	1.50
Driscol, Church & Hall,	8.25
Ellis, L. B.,	13.50
Faisneau, G. E.,	1.35
Footman, J. W.,	1.00
Gammons, E. H.,	39.00
Gifford, F. S.,	.95
Hadley, F. R.,	1.30
Hall, Thomas,	2.00
Hart, T. M. & Co.,	1.02
Hart & Akin,	12.59
Haskell & Tripp,	17.25
Haskins, E. P.,	.75
Hatch, G. E.,	12.13
Hayes, N. P.,	27.57
Hazzard, J. B.,	206.02
Hutchinson, H. S. & Co.,	20.00
Jenkins, B. S.,	1.94
Jenney, P. P. & Son,	.50
Lawton, C. H. & H. A.,	12.00
Lowe, S. C.,	10.58
Macy, J. Roland,	3.92
N. B. Boiler & Machine Co.,	.75
N. B. Cordage Co.,	.25
O'Neil, John,	9.00
Peirce, William,	10.00

Pierce & Sowle,	$45.93	
Potter, E. L.,	3.30	
Purrington & Brown,	245.30	
Richards, G. D.,	32.39	
Sherman, C. R. & Son.,	69.12	
Slocum, F. R.,	2.00	
Sullings, Kingman & Co.,	52.56	
Sullivan, D. J.,	36.75	
Sullivan, M. H.,	3.50	
Taber, R. W.,	1.00	
Taylor, H. J. & Son,	39.30	
Tillinghast, W. A.,	1.15	
Tripp, H. W.,	22.91	
Tripp, S. A.,	91.29	
Wady, A. B.,	1.39	
Waite, B. H. & Co.,	12.00	
Washburn, W. H.,	7.75	
Watson & Fuller,	21.52	
Whitcomb, A. G.,	856.41	
White, A. P.,	5.79	
Whiting, E. B. & Co.,	.82	
Wing, C. F.,	257.76	
Wright, J. A.,	.75	$2,618.46

Repairs of Heating Apparatus:

Cobb, G. A.,	$7.50	
Gifford, T. J. & Co.,	3.38	
Hatch, G. E.,	7.75	
Lowe, S. C.,	48.46	
Mason, J. L. G.,	11.37	
Penney, E. F.,	8.20	
Tripp, S. A.,	220.83	307.49

Miscellaneous:

Adelphi Rink,	$125.00	
Anthony, E. & Sons,	14.67	
Arnett, Robert, Jr.,	8.40	
Ashley, Mary P.,	8.00	
Azevedo, Manuel,	124.70	
Barbour, J. R.,	3.80	
Briggs, G. E.,	1.50	
Briggs & Lawrence,	56.57	
Carson, C. J. R.,	36.85	

Chace, Ezra B.,	$63.82
Chase, J. F.,	.25
Corish, John,	16.12
Corson, T. S.,	.50
Cotter, W. D.,	45.20
Dennis, Valariah,	492.53
Edison Electric Ill. Co.,	361.45
Freetown, town of,	25.00
Gammons, E. H.,	73.50
Gardner, T. M.,	47.82
Graves, Rev. H. C.,	10.00
Gray, C. A.,	47.69
Grinnell, Edmund,	43.13
Hart & Akin,	7.57
Haskins, E. P.,	1.30
Haskins, Orville & Sons,	71.80
Hatch, W. E.,	4.93
Hatch & Co.,	9.65
Hathaway, G. B.,	22.00
Hathaway, J. C.,	4.00
Hayes, L. G.,	37.24
Hickory and Ward Streets Sewer,	80.91
Hinckley, Mary R.,	5.04
Holmes, D. W.,	30.30
Howland, Jonathan, Jr.,	.60
Jenney, P. P. & Son,	1.80
Journal Pub. Co.,	5.00
Kelley, W. L.,	2.50
Kirby & Hicks,	27.00
Levi, Mary E.,	93.87
Liberty Street Sewer,	50.39
Maine, H. M.,	8.55
Mason, J. L. G.,	16.11
Maxfield, William & Son,	20.10
Mercury Pub. Co.,	8.50
Milliken, F. L.,	2.79
Moulton, A. G.,	73.05
N. B. Gas Light Co.,	736.90
Nye, G. H.,	1.50
Old Colony Railroad Co.,	5.34
Peirce, E. M.,	2.00
Perry, S. F. & Son,	2.75
Phillips, H. T.,	168.15
Pitman, W. H.,	2.46
Pollock, F. O.,	18.13

Poole, P. S.,	$5.00	
Potter, Frances M.,	2.70	
Russell, D. J.,	1.90	
Sargeant, F. H.,	2.75	
Sherman, C. R. & Son,	4.25	
Sherman, W. H.,	32.75	
Smith, Asa,	44.25	
South Christian Society,	185.00	
Southern Massachusetts Telephone Co.,	129.13	
Sullivan, D. J.,	7.75	
Sylvia, John,	23.92	
Taber, R. A.,	4.27	
Underwood, J. A.,	51.29	
U. S. Express Co.,	1.75	
West, W. R.,	25.48	
White, A. P.,	40.70	
Wood, J. A.,	12.03	
W. U. Telegraph Co.,	1.37	$3,705.02
		$31,299.64
To transfer to balance,		712.61
		$32,012.25

Cr.

By appropriation,	$25,000.00	
Appropriation, special,	7,000.00	
Cash receipts, as per Treasurer's report,	12.25	$32,012.25

LIGHTING THE STREETS.

Dr.

Lights:		
Globe Gas Light Co., naphtha,	$9,036.78	
N. B. Gas Light Co., electric,	10,610.42	
" " gas,	9,262.69	$28,909.89
Miscellaneous:		
Kempton, F. A., estate,	$25.00	
Kirby & Hicks,	30.00	
Mercury Pub. Co.,	7.02	
N. B. Gas Light Co.,	71.19	
Peirce, J. H.,	7.00	
Perry, S. F. & Son,	5.00	
Sowle, F. A.,	21.25	166.46
		$29,076.35

Cr.

By appropriation,	$29,000.00	
Transfer to balance,	76.35	$29,076.35

PUBLIC SCHOOLS — DOG FUND.

Dr.

Allen, Luke,	$62.50	
Burdick, H. R.,	125.00	
Coe, I. H.,	62.50	
Hatch, W. E.,	198.00	
Hutchinson, H. S. & Co.,	3.60	
Lawton, J. M., Jr.,	27.00	
McAfee, J. K.,	20.00	
Phillips, H. T.,	62.50	
Richards, G. D.,	20.00	
Tompkins, I. B.,	75.00	$656.10
1891, Jan. 5. To balance,		2,639.24
		$3,295.34

Cr.

1890, Jan. 6. By balance,	$2,026.78	
By cash receipts, as per Treasurer's report,	1,268.56	$3,295.34

Cr.

1891, Jan. 5. By balance,	$2,639.24

FREE PUBLIC LIBRARY.

Dr.

SALARIES:		
R. C. Ingraham, librarian,	$2,250.00	
W. L. R. Gifford, assistant librarian,	1,500.00	
Mary E. Brown, assistant,	540.00	
Josephine A. Merrick, assistant,	540.00	
Susie H. Gammons, assistant,	540.00	
Emma J. Merrick, assistant,	93.50	
Lottie M. Gammons, assistant,	25.00	
Louise Lawton, assistant,	7.50	$5,496.00
MISCELLANEOUS:		
Almy & Milne,	$6.00	
Anthony, E. & Sons,	100.66	
A. Storrs & Bement Co.,	7.50	
Bradish, J. Q. & Co.,	6.80	
Dews, Edwin,	233.72	
D. Van Nostrand Co.,	2.00	
Goss, F. B. & F. P.,	2.00	
Kane, D. J. & Bro.,	2.15	
Mercury Pub Co.,	14.40	
Providence Journal Co.,	2.00	377.23
		$5,873.23

Cr.

By appropriation,	$5,800.00	
Transfer to balance,	73.23	$5,873.23

TRUANT SCHOOL.

Dr.

Anthony, E. & Sons,	$6.00	
Bliss & Nye,	5.62	
Davis, G. D.,	104.00	
Davis, J. & Co.,	30.50	
Delano, Gustavus,	15.38	
Donaghy, Thomas,	39.40	
Fay, Julia A.,	660.00	
Grinnell, Edmund,	.42	
Hart & Akin,	39.16	
Knowles & Co.,	7.67	
Macy, P. S.,	1.65	
Moore & Diman,	1.00	
Poor Department,	1,394.47	
Sherman, W. H.,	24.00	
Tillson, H. H.,	1.50	
Tripp, S. A.,	9.44	
Wing, J. & W. R. & Co.,	60.65	$2,400.86

Cr.

By appropriation,	$1,100.00	
Appropriation, special,	851.00	$1,951.00
Transfer to balance,		449.86
		$2,400.86

CITY STABLE AND LOT.

Dr.

Street Department,	$1,955.10

Cr.

By transfer from Poor Department,	$1,955.10

COURT JUDGMENTS.

Dr.

Bullock, P. B., estate,	$650.00	
Dade, Isaiah C.,	105.41	
Doull, Mary L.,	169.54	
Reed, Thomas W.,	174.41	
Thomas, Ellen M.,	419.97	$1,519.33
1890, Jan. 6. To balance,		2,778.13
		$4,297.46

Cr.

By appropriation,	$2,778.13	
1891, Jan. 5. By balance,	1,519.33	$4,297.46

Dr.

1891, Jan. 5. To balance,	$1,519.33

DARTMOUTH ST. SCHOOL HOUSE EXTENSION.

Dr.

Blossom, A. F.,	$4,499.69	
Grinnell, Edmund,	.37	
Hammond, E. B.,	350.00	
Hart & Akin,	16.08	
Hayden, W. G.,	415.50	
Lowe, S. C.,	2.40	
Wood, Brightman & Co.,	31.33	$5,315.37
To transfer to balance,		507.28
		$5,822.65

Cr.

1890, Jan. 6. By balance,	$5,822.65

SEWERS — GENERAL ACCOUNT.

Dr.

Pay-rolls,	$10,409.86
Acushnet Coöperative Association,	50.00
Ames Plow Co.,	31.83
Anthony, E. & Sons,	6.00
Bailey, G. P.,	.75
Bates, J. W.,	60.00
Bates, Lot B.,	.75
Borden, C. F.,	9.84
Brownell & Co.,	2.67
Brownell & Murkland,	2.50
Caldwell, W. S.,	.65
Cedar Grove Street Sewer, No. 2,	20.57
Coggeshall, Maxfield & Co.,	1.25
Cooper, William,	2.47
Corson, T. S.,	226.10
Cummings, C. S. & B.,	20.10
Dennison, A. K.,	.60
DeWolf & Vincent,	11.75
Doane, W. L. R.,	2.00
Dodge, Haley & Co.,	11.77
Drake, A. B.,	243.75
Eggers, S.,	81.08
Eureka Iron Foundry,	10.86
Faunce, S. T.,	10.30
Fichtenmayer & Flynn,	6.55
Fiske, Coleman & Co.,	4.68
Fuller, N. T.,	19.50
Gage, J. N.,	7.65
Gifford's Brass Foundry,	3.25
Grape Street Sewer extension,	4.95
Greene & Wood,	5.70
Grinnell, Edmund,	1,067.48
Hammond, H. S.,	33.48
Hart, T. M. & Co.,	39.11
Hart & Akin,	200.00
Hayden, W. G.,	19.10
Hayes, N. P.,	7.30
Higgins, E. O.,	1.50
James, E. L.,	15.00
Jenney, P. P. & Son,	1.20
Jenney & Buffington,	4.00

Kennedy, J. P.,	$3.00	
Kirby & Hicks,	30.00	
Liberty Street Sewer tax,	60.14	
Lowell, Clarence,	26.00	
Maxfield, William & Son,	.60	
McCue, John,	174.30	
McCullough, John,	13.24	
N. B. Cordage Co.,	22.85	
N. B. Water Works,	140.00	
Old Colony Railroad Co.,	.94	
Paine, S. S. & Bro.,	7,768.33	
Paisler, C. S.,	2,841.43	
Perkins & Chase,	24.59	
Pierce, Dr. A. M.,	14.00	
Potter, E. L.,	10.28	
Reed, E. W.,	33.35	
Richardson, G. P.,	46.00	
Richmond, A. C.,	321.00	
Rounseville, Alden, Jr.,	4.50	
Russell, Pardon, Jr.,	560.00	
Russell, W. A.,	85.00	
South Front Street Sewer, No. 2,	10.00	
South Front Street Sewer, No. 3,	22.55	
Spooner, G. W.,	12.00	
Street Department,	10,411.12	
Sullings, Kingman & Co.,	17.70	
Sweeney, Daniel,	7.00	
Sweet, Dr. Job,	6.50	
Taber, O. R. & Son,	12.49	
Taylor, Dr. W. H.,	2.00	
Tillinghast, W. A.,	339.60	
Union Boot & Shoe Co.,	23.00	
Union Street Railway Co.,	69.00	
West, W. R.,	2.50	
White, Phineas,	99.20	$35,872.11

Cr.

By appropriation,	$1,000.00	
Appropriation, special,	31,000.00	
Cash receipts, as per Treasurer's report,	3,782.68	$35,782.68
Transfer to balance,		89.43
		$35,872.11

SEWERS—ARNOLD AND COUNTY STREETS.

Dr.

Pay-rolls,	$857.53	
Brightman, C. O.,	7.41	
Drake, A. B.,	6.00	
Fifth Street Sewer,	11.41	
General Sewers,	323.32	
Paisler, C. S.,	10.90	
Penney, E. F.,	2.40	
Smith, E. B.,	1.75	
Street Department,	255.90	
Wright, E. E.,	2.45	$1,479.07

Cr.

By appropriation, special,	$1,479.07

SEWERS—BOWDITCH STREET, No. 2.

Dr.

Pay-rolls,	$1,781.05	
Cotter, W. D.,	1.06	
Davis, James,	.60	
Drake, A. B.,	54.00	
Eggers, S.,	50.50	
General Sewers,	710.75	
Greene & Wood,	6.19	
Lowe, J. H.,	2.00	
Lowe, S. C.,	1.87	
Paisler, C. S.,	50.55	
Street Department,	278.26	
Tillinghast, W. A.,	15.46	$2,952.29
To transfer to balance,		47.71
		$3,000.00

Cr.

By appropriation, special,	$3,000.00

SEWERS — BOWDITCH STREET, No. 3.

Cr.

By appropriation, special,	$1,000.00

SEWERS — CEDAR GROVE STREET, No. 2.

Dr.

Pay-rolls,	$827.43	
Drake, A. B.,	20.50	
General Sewers,	136.17	
Greene & Wood,	75.31	
Street Department,	44.23	$1,103.64
To transfer to balance,		35.70
		$1,139.34

Cr.

By appropriation, special,	$1,075.02	
Cash receipts, as per Treasurer's report,	64.32	$1,139.34

SEWERS—COUNTY STREET, No. 3.

Dr.

General Sewers,	$104.42

Cr.

By appropriation,	$104.42

SEWERS — COUNTY STREET, No. 4.

Cr.

By appropriation, special,	$300.00

SEWERS — FIFTH STREET.

Dr.

Pay-rolls,	$1,700.09	
Borden, H. T.,	2.75	
Drake, A. B.,	14.50	
Eggers, S.,	67.09	
General Sewers,	338.29	
Howland, C. H.,	1.95	
Leonard, Dr. M. H.,	2.00	
Paisler, C. S.,	33.07	
Penney, E. F.,	2.75	
Perkins & Chase,	2.00	
Street Department,	285.52	
Tillinghast, W. A.,	23.11	
Wright, E. E.,	.50	$2,473.62
To transfer to balance,		.24
		$2,473.86

Cr.

By appropriation, special,	$2,460.50	
Cash receipts, as per Treasurer's report,	13.36	$2,473.86

SEWERS — FOURTH STREET.

Dr.

Pay-rolls,	$567.36	
Bertram, Douglass,	3.50	
Borden, C. F.,	1.95	
Drake, A. B.,	48.00	
General Sewers,	200.40	
Street Department,	133.37	
Williams, H. A.,	7.00	$961.58
To transfer to balance,		38.42
		$1,000.00

Cr.

By appropriation, special,	$1,000.00

SEWERS — FRUIT STREET.

Dr.

Pay-rolls,	$1,871.35	
Baker, D. W.,	1.50	
Borden, H. T.,	4.50	
Drake, A. B.,	27.00	
Eggers, S.,	85.59	
General Sewers,	440.52	
Greene & Wood,	4.22	
Paisler, C. S.,	19.27	
Street Department,	133.49	$2,587.44

Cr.

By appropriation, special,	$2,563.02	
Transfer to balance,	24.42	$2,587.44

SEWERS — GRAPE STREET EXTENSION.

Dr.

Pay-rolls,	$4,007.16	
Bliss & Nye,	32.77	
Borden, H. T.,	16.00	
Eggers, S.,	124.00	
General Sewers,	97.19	
Greene & Wood,	229.44	
Hart & Akin,	25.06	
Little, Clarinda J.,	200.00	
Paisler, C. S.,	1,604.09	
Street Department,	517.12	
Tillinghast, W. A.,	18.75	
Tripp, P. A.,	91.59	
Wade, J. B.,	4.21	
Washburn, W. H.,	94.47	
White, Phineas,	4.00	$7,065.85
1891, Jan. 5. To balance,		2,939.10
		$10,004.95

Cr.

By appropriation, special,	$10,000.00	
By cash receipts, as per Treasurer's report,	4.95	$10,004.95

Cr.

1891, Jan. 5. By balance,	$2,939.10

SEWERS — HOWARD STREET.

Dr.

Pay-rolls,	$290.70	
Drake, A. B.,	28.50	
Eggers, S.,	14.50	
General Sewers,	115.75	
Saucier, Henry,	1.50	
Street Department,	33.28	$484.23
To transfer to balance,		115.77
		$600.00

Cr.

By appropriation, special,	$600.00

SEWERS — NORTH FRONT STREET.

Dr.

Pay-rolls,	$302.34	
Drake, A. B.,	26.00	
Eggers, S.,	15.00	
General Sewers,	112.62	
Greene & Wood,	4.45	
Street Department,	39.16	$499.57
To transfer to balance,		100.43
		$600.00

Cr.

By appropriation,	$600.00

SEWERS — PEARL AND WILLIS STREETS EXTENSION.

Dr.

Pay-rolls,	$270.42	
Duff, David & Son,	3,094.25	
General Sewers,	51.07	
Kenyon, H. W.,	125.25	
Perkins & Chase,	10.50	
Sawin, A. K. P.,	7.00	
Street Department,	752.97	$4,311.46

Cr.

1890, Jan. 6. By balance,	$417.04	
By appropriation, special,	3,894.42	$4,311.46

SEWERS—POPE STREET, No. 2.

Dr.

Pay-rolls,	$176.85	
Drake, A. B.,	5.50	
General Sewers,	130.97	
Street Department,	12.42	$325.74
To transfer to balance,		74.26
		$400.00

Cr.

By appropriation, special,	$400.00

SEWERS—PROSPECT STREET.

Dr.

Pay-rolls,	$345.40	
Drake, A. B.,	45.00	
General Sewers,	175.69	
Paisler, C. S.,	6.25	
Street Department,	40.04	
White, Phineas,	2.00	$614.38
To transfer to balance,		35.62
		$650.00

Cr.

By appropriation, special,	$650.00

SEWERS — RIVET STREET, No. 4.

Dr.

Pay-rolls,	$61.88	
Drake, A. B.,	6.50	
General Sewers,	54.42	
Street Department,	19.67	$142.47
To transfer to balance,		107.53
		$250.00

Cr.

By appropriation, special,	$250.00

SEWERS—SMITH AND WALDEN STREETS.

Dr.

Pay-rolls,	$663.75	
Drake, A. B.,	36.50	
Eggers, S.,	3.25	
General Sewers,	284.68	
Paisler, C. S.,	4.77	
Street Department,	39.20	$1,032.15
1891, Jan. 5. To balance,		167.85
		$1,200.00

Cr.

By appropriation, special,	$1,200.00

Cr.

1891, Jan. 5. By balance,	$167.85

SEWERS — SOUTH FRONT STREET, No. 2.

Dr.

Lumbert, John,	$.75	
Street Department,	12.21	$12.96

Cr.

By appropriation, special,	$2.96	
Cash receipts, as per Treasurer's report,	10.00	$12.96

SEWERS—SOUTH FRONT STREET, No. 3.

Dr.

Pay-rolls,	$155.58	
Drake, A. B.,	15.50	
Eggers, S.,	.45	
General Sewers,	109.69	
Street Department,	15.20	$296.42
To transfer to balance,		76.13
		$372.55

Cr.

By appropriation, special,	$350.00	
Cash receipts, as per Treasurer's report,	22.55	$372.55

SEWERS—SOUTH SECOND STREET, No. 3.

Dr.

Pay-rolls,	$117.08	
Drake, A. B.,	12.50	
General Sewers,	88.87	
Penney, E. F.,	1.35	
Street Department,	23.94	$243.74
To transfer to balance,		56.26
		$300.00

Cr.

By appropriation, special,	$300.00

SEWERS — SYCAMORE STREET, No. 2.

Cr.

By appropriation, special,	$1,800.00

BOARD OF HEALTH.

Dr.

Ashley, Dr. D. C.,	$2.50	
Bunker, Elihu,	.25	
Cassidy, G. G.,	5.00	
Coggeshall, Maxfield & Co.,	7.75	
Cornell & Swift,	2.50	
Cummings, C. S. & B.,	1.44	
Douglass, F. M.,	106.00	
Drake, A. B.,	11.25	
Greenough, W. A. & Co.,	2.00	
Hadley, F. R.,	1.53	
Hatch & Co.,	.30	
Hathaway, Nathaniel,	.30	
Hayden, Eugene,	7.50	
Inspector,	50.00	
Lawton, C. H. & H. A.,	5.65	
Office expenses,	12.00	
Peed, T. J.,	15.00	
Perry, S. F. & Son,	1.50	
Richardson, L. H.,	1,250.00	
Small, Susie J.,	500.00	
So. Mass. Telephone Co.,	33.94	
Swift, Dr. W. N.,	83.00	
Taber, R. W.,	9.75	
Taylor, Dr. W. H.,	10.00	$2,119.16
To transfer to balance,		80.84
		$2,200.00

Cr.

By appropriation,	$2,200.00

DIVISION STREET SCHOOL HOUSE AND LOT.

Dr.

Brownell & Murkland, contract,	$15,000.00	
" " extra,	196.02	
Division Street Sewer tax,	96.68	
Drake, A. B.,	36.20	
Hammond, E. B.,	350.00	
N. B. Water Works,	19.26	
Penney, E. F.,	384.00	
Polsey, J. F.,	1,200.00	$17,282.16
1891, Jan. 5. To balance,		17,858.84
		$35,141.00

Cr.

By appropriation, special,	$35,141.00

Cr.

1891, Jan. 5. By balance,	$17,858.84

ENGINE HOUSE AND LOT, DURFEE STREET (No. 7).

Dr.

Acushnet Iron Co.,	$10.64	
Broad Gauge Iron Works,	2.40	
DeWolf & Vincent,	25.03	
Gifford, T. J. & Co.,	326.55	
Hammond, C. & Son,	360.00	
Hatch, G. E.,	7.80	
Hayes, N. P.,	22.07	
Macy, E. B.,	42.03	
N. B. Boiler & Machine Co.,	750.00	
Pierce & Sowle,	20.37	
Sullings, Kingman & Co.,	38.09	
H. W. Tripp, contract,	3,745.00	
" " extra,	6.00	$5,355.98

Cr.

1890, Jan. 6. By balance,	$5,114.57	
Appropriation, special,	241.41	$5,355.98

ENGINE HOUSE AT HEAD OF THE RIVER.

Dr.

Acushnet Saw Mill Co.,	$17.77	
Croacher, T. W.,	4.22	
Greene & Wood,	50.84	
Hart & Akin,	10.18	
Hersom, Thomas,	100.00	
Lowe, S. C.,	3.52	
Mendall, N. F.,	4.80	
Morton, E. F.,	34.56	
Paisler, C. S.,	24.19	
Randall, G. W.,	111.53	
Reed, E. W.,	295.25	
Sawin, A. K. P.,	125.00	
Smith, D. V.,	4.00	
Spooner, J. W.,	17.25	
West, W. R.,	76.35	$879.46

Cr.

By appropriation, special,	$850.00	
Transfer to balance,	29.46	$879.46

FIRE ENGINE, HORSES, &c., DURFEE STREET (No. 7).

Dr.

Acushnet Iron Co.,	$7.12	
Almy & Hitch,	50.32	
Anthony, E. & Sons,	6.33	
Briggs & Lawrence,	181.70	
Chadwick, H. E.,	24.00	
Cornelius Callahan Co.,	1,374.00	
Cronin, William,	13.75	
Dews, Edwin,	3.00	
Douglass, J. O.,	225.00	
Hayes, N. P.,	4.50	
Healy, T. F.,	106.00	
Holmes, D. W.,	13.55	
Hornblower, Dr. W. H.,	10.00	
Lowe, S. C.,	17.50	
Lowell, Clarence,	723.08	
Macy, E. B.,	31.00	
Macy, Frederick,	45.85	
Manchester Locomotive Works,	3,550.00	
Mercury Pub. Co.,	6.92	
Merlick, A.,	400.00	
Monte Pio Coöperative Association,	3.33	
N. B. Cordage Co.,	58.05	
N. B. Gas Light Co.,	98.98	
Old Colony Railroad Co.,	40.00	
Pierce & Sowle,	15.37	
Snow, R. W.,	7.50	
Stubbs, H. C.,	55.86	
Swan, W. D. & Son,	5.34	
Taylor, H. J. & Son,	7.15	
Thomas, Charles,	225.00	
Tripp, H. W.,	37.23	
Tripp, S. A.,	11.00	
Whiting, E. B. & Co.,	20.34	
Wing, C. F.,	120.89	$7,499.66
To transfer to balance,		.34
		$7,500.00

Cr.

By appropriation, special,	$7,500.00

POLICE TELEGRAPH SIGNAL SYSTEM.

Dr.

Brownell, S. A.,	$12.70	
Chadwick, H. E.,	26.00	
Douglass, J. O.,	175.00	
Holcomb, Roland,	1,700.00	
Perry, S. F. & Son,	1.40	
Taylor, J. Arthur,	3.00	$1,918.10
1891, Jan. 5. To balance,		14,231.90
		$16,150.00

Cr.

By appropriation, special,	$16,150.00

Cr.

1891, Jan. 5. By balance,	$14,231.90

SCHOOL HOUSE AT HEAD OF THE RIVER.

Dr.

Brownell & Murkland,	$2,990.00	
Hammond, E. B.,	192.00	
Penney, E. F.,	348.00	$3,530.00
To transfer to balance,		197.80
		$3,727.80

Cr.

1890, Jan. 6. By balance,	$3,727.80

REPAIRS OF CITY PROPERTY.

Dr.

Almshouse:		
Faunce, C. L.,	$81.53	
Greene & Wood,	27.24	
Nelson, George,	174.07	$282.84
City Hall Building:		
Briggs & Lawrence,	$3.00	
Caswell, W. H.,	47.30	
Cranston, O. W.,	.40	
Drake, A. B.,	17.00	
Edison Electric Ill. Co.,	12.41	
Faunce, C. L.,	1.81	
Hayes, N. P.,	28.75	
Hillman, Jethro,	49.20	
Jenney, P. P. & Son,	15.69	
Kern & Wright,	329.14	
N. B. Gas Light Co.,	.90	
Nelson, George,	37.48	
Penney, E. F.,	27.65	
Piper, D. M.,	7.25	
Piper, J. Arthur,	8.40	
Richards, G. D.,	2.75	
Sanders, William,	50.00	
Sherman, C. R. & Son,	.75	
Sullivan, M. H.,	26.00	
Wady, A. B.,	35.08	
Wing, C. F.,	469.67	
Wood, Brightman & Co.,	43.13	1,213.76
Engine Houses:		
Faunce, C. L.,	$106.10	
Ham, L. M. & Co.,	7.35	
Hammond, F. W.,	10.85	
Holmes, D. W.,	61.21	185.51
Library Building:		
Almy & Hitch,	$8.74	
Bliss, G. C.,	21.25	
Borden, C. F.,	50.00	

Briggs & Lawrence,	$343.75	
Brownell & Murkland,	.80	
Caswell, W. H.,	98.59	
Coggeshall, Maxfield & Co.,	9.60	
Cranston, O. W.,	32.75	
DeWolf & Vincent,	3.00	
Durfee, E. M.,	.25	
Edison Electric Ill. Co.,	.20	
Ellis, L. B.,	8.25	
Gifford, T. J. & Co.,	2.33	
Hayes, N. P.,	5.03	
Hillman, Jethro,	113.91	
Jenkins, B. S.,	4.80	
Jenney, P. P. & Son,	3.02	
Kirby, W. A.,	17.36	
McAuliffe, D. J.,	10.00	
N. B. Boiler and Machine Co.,	3.98	
N. B. Gas Light Co.,	23.53	
Penney, E. F.,	1.00	
Piper, D. M.,	.75	
Pomeroy, H. G.,	1.15	
Richards, G. D.,	16.38	
Sherman, C. R. & Son,	1.70	
Slocum, F. R.,	4.25	
Sullings, Kingman & Co.,	8.25	
Taber, R. A.,	2.97	
Taylor, H. J. & Son,	17.42	
Tripp, S. A.,	23.26	
Wady, A. B.,	6.30	
Wing, C. F.,	4.92	
Wood, Brightman & Co.,	22.41	$871.90
POLICE STATIONS:		
Bliss, G. H.,	$1.79	
Caswell, W. H.,	9.57	
Faunce, L. H.,	2.69	
Moriarty Bros.,	72.55	
Wood, Brightman & Co.,	6.32	92.92
WARD ROOMS:		
Brightman, C. O.,	$1.05	
Caswell, W. H.,	1.17	
Hillman, Jethro,	1.20	
N. B. Gas Light Co.,	1.40	
Penney, E. F.,	3.30	8.12

MISCELLANEOUS:

Ashley, I. L.,	$4.00	
Black, Peter,	72.40	
City Treasurer,	100.60	
Cobb, G. A.,	4.75	
Drake, A. B.,	2.00	
Faunce, C. L.,	60.51	
Footman, J. W.,	6.25	
Greene & Wood,	10.89	
Grinnell, Edmund,	.16	
Hart & Akin,	47.17	
Hutchinson, H. S. & Co.,	1.25	
Kirby & Hicks,	19.00	
Murphy, Jane, land adjoining Weld street engine house,	1,500.00	
Penney, E. F.,	1.75	
Perry, S. F. & Son,	6.00	
Swan, W. D. & Son,	20.35	
White, Phineas,	14.73	
Wood, Brightman & Co.,	3.20	$1,875.01
		$4,530.06

CR.

1890, Jan. 6. By balance,		$300.00
By appropriation,	$2,000.00	
Appropriation, special,	1,898.80	3,898.80
Transfer to balance,		331.26
		$4,530.06

NEW BEDFORD SCHOOL COMMITTEE.

HOWLAND FUND.

Dr.

Adams, C. F.,	$31.45
American Book Co.,	206.25
Anthony & Sons,	5.00
Appleton, D. & Co.,	3.48
Barnes, A. S. & Co.,	2.26
Bates, Olivia M.,	21.45
Bay State Pub. Co.,	57.60
Bliss, G. H.,	2.10
Bliss & Nye,	5.00
Boden, E., Jr.,	475.00
Boston School Supply Co.,	125.44
Bradley, Milton & Co.,	21.18
Denham, E. F. B.,	1.60
Dews, Edwin,	2.00
Educational Pub. Co.,	127.05
Educator, The,	3.00
Eimer & Amend,	.70
Faunce, C. L.,	6.00
Gardner, T. M.,	18.10
Ginn & Co.,	229.30
Gray, C. A.,	6.70
Hammett, J. L.,	62.19
Harper & Brothers,	3.24
Haskell & Tripp,	6.14
Haskins, E. P.,	.25
Haskins, Orville & Sons,	15.00
Hatch, W. E.,	2.40
Hatch & Co.,	31.10
Hayes, N. P.,	8.50
Heath, D. C. & Co.,	251.04
Holden Book Cover Co.,	34.72
Houghton, Mifflin & Co.,	20.57
Hutchinson, H. S. & Co.,	652.98
J. B. Lippincott Co.,	20.90
Kane, D. J. & Bro.,	66.90
Kellogg, E. L. & Co.,	29.70
Knowlton, D. H. & Co.,	6.00
Lawton, Louise,	19.60
Leach, Shewell & Sanborn,	3.67
Lee & Shepard,	165.31
Lumbard, Anna M.,	3.38

Mason, Perry & Co.,	$131.09	
Maynard, Effingham & Co.,	.84	
McFarlin, James,	6.00	
Merrick, Emma J.,	21.45	
N. E. Pub. Co.,	7.50	
Old Colony R. R. Co.,	1.76	
Oliver Ditson Co.,	25.03	
Perry, G. S.,	140.43	
Peirce, George,	236.25	
Pierce & Bushnell Mfg. Co.,	12.97	
Pierce & Sowle,	.10	
Potter, Frances,	2.15	
Prang Educational Co.,	29.60	
Richards, G. D.,	9.15	
Richter, G. H. & Co.,	79.93	
Ritchie, E. S. & Sons,	10.64	
Roberts & Fellows,	19.20	
Schoenhof, Carl,	7.84	
School Herald Pub. Co.,	26.50	
Sherman, C. R. & Son,	1.80	
Silver, Burdett & Co.,	221.77	
Small, Willard,	59.84	
Stockin, A. C.,	3.89	
Sullings, Kingman & Co.,	6.55	
Taber, Alice,	7.30	
Tompkins, I. B., Jr.,	2.15	
University Pub. Co.,	24.63	
U. S. Express Co.,	2.55	
Wakefield, N. S. & Co.,	6.75	
Ware, William & Co.,	8.00	
Western Pub. House,	145.84	$4,013.75
1891, Jan. 5. To balance,		1,894.39
		$5,908.14

CR.

1890, Jan. 6. By balance,	$2,908.14	
By cash receipts, as per Treasurer's report,	3,000.00	$5,908.14

CR.

1891, Jan. 5. By balance,	$1,894.39

CEMETERIES.

Dr.

Pay-rolls, Rural,	$1,453.36
" Rural, Otis A. Davis,	246.76
" Oak Grove, C. F. Cornell,	1,214.20
Anthony, E. & Sons,	5.51
Beetle, R.,	15.93
Bertram, Douglass,	18.75
Bertram, John,	18.75
Bliss, G. C.,	83.72
Borden, G. B.,	10.20
Brown, W. S.,	127.00
Brownell & Co.,	11.70
Caswell, W. H.,	23.10
Crapo, G. W.,	3.60
Crapo, Peter,	10.00
Davis Bros.,	28.00
Doran, William,	249.30
Drake, A. B.,	65.70
Duff, David & Son,	521.14
Dunn, John,	188.25
Dutton, W. E.,	10.00
Eggers, S.,	3.16
Faunce, C. L.,	105.00
Fire Department,	32.00
Gammons, E. H.,	1.67
Gammons, F. M.,	17.75
Gifford's Brass Foundry,	4.15
Greene & Wood,	11.61
Hathaway, A. B.,	205.06
Hathaway, D. L.,	221.83
Hayden, W. G.,	.50
Hayes, N. P.,	16.36
Holmes, D. W.,	42.75
Jenney, P. P. & Son,	20.07
King, George,	19.60
Lawton, R. S.,	221.52
Look, J. W.,	326.93
Lowe, S. C.,	6.65
Manchester, J. W.,	9.37
McIvor, James,	15.00
Mercury Pub. Co.,	8.07

Moriarty Bros.,	$1.75	
Mosher, E. D.,	53.52	
Munroe & Sears,	28.00	
N. B. Cordage Co.,	6.63	
N. B. Water Works,	784.91	
Paisler, C. S.,	10.50	
Palmer, W. L.,	1.55	
Perkins & Chase,	107.00	
Perry, G. W.,	71.23	
Peirce, C. E.,	7.33	
Peirce, William,	20.00	
Pierce & Sowle,	18.00	
Quirk, Patrick,	3.65	
Randall, C. G. & G. A.,	.87	
Richards, G. D.,	4.80	
Sanders, William,	200.00	
Sanders, William,	10.00	
Sanders & Barrows,	15.00	
Sheehan, Timothy,	51.00	
Sherman, C. R. & Son,	.75	
Sherman, J. L.,	48.32	
Skiff, A. J.,	10.95	
So. Mass. Telephone Co.,	75.65	
Springer, A. R.,	35.00	
Street Department,	300.08	
Sturtevant, W. F.,	162.92	
Sturtevant & Parker,	5.03	
Sullings, Kingman & Co.,	67.40	
Sullivan, J. B.,	71.25	
Sylvia, A. A.,	3.33	
Sylvia, Joseph,	325.10	
Taylor, H. J. & Son,	46.39	
Tripp, A. B.,	17.50	
Tripp, H. R.,	17.75	
Wady, A. B.,	114.48	
West, W. R.,	101.00	
White, Phineas,	1.50	$8,394.16
1891, Jan. 5. To balance,		415.09
		$8,809.25

Cr.

By appropriation,	$1,600.00	
Appropriation, special,	2,200.00	$3,800.00
Cash receipts, as per Treasurer's report,		3,620.00
Transfer from Poor Department.	$525.43	
Transfer from N. B. and F. Bridge,	201.96	
Transfer from unappropriated funds,	661.86	1,389.25
		$8,809.25

Cr.

1891, Jan. 5. By balance,	$415.09

FREE PUBLIC LIBRARY — DOG FUND.

Dr.

Almy, J. T.,	$49.00	
Ames, Y. W.,	566.00	
Anthony, E. & Sons,	44.38	
Briggs & Lawrence,	29.00	
Ellis, L. B.,	8.66	
Gammons, Lottie M.,	19.50	
Gifford, W. L. R.,	32.00	
Hutchinson, H. S. & Co.,	5.00	
McAuliffe, D. J.,	26.00	
Mercury Pub. Co.,	20.46	
Pope, A. P.,	11.47	$811.47
1891, Jan. 5. To balance,		630.90
		$1,442.37

Cr.

1890, Jan. 6. By balance,	$173.82	
By cash receipts, as per Treasurer's report,	1,268.55	$1,442.37

Cr.

1891, Jan. 5. By balance,	$630.90

NEW BEDFORD WATER WORKS.

Dr.

To expenditures, as per drafts of the N. B. Water Board,	$70,063.23	
1891, Jan. 5. To balance,	41,713.69	$111,776.92

Cr.

1890, Jan. 6. By balance,		$31,504.57
By appropriation,	$12.000.00	
Cash receipts, as per Treasurer's report,	68,272.35	80,272.35
		$111,776.92

Cr.

1891, Jan. 5. By balance,	$41,713.69

PARKS AND SQUARES.

Dr.

Pay-rolls,	$833.05	
DeWolf & Vincent,	13.10	
Jenney, P. P. & Son,	50.45	
Richards, G. D.,	.40	
Street Department,	759.17	$1,656.17

Cr.

By appropriation,	$1,500.00	
Transfer to balance,	156.17	$1,656.17

N. B. & FAIRHAVEN BRIDGE.

Dr.

Pay-rolls,	$843.19	
Bowen, G. S. & Son,	1.90	
Chace, Abram & Co.,	3,998.82	
Duddy, James,	4.70	
Duff, David & Son,	30.50	
Greene & Wood,	3,289.56	
Howland, Weston,	25.00	
Jenney, P. P. & Son,	.45	
Nicholson, J. B.,	5.00	
Russell, Luther,	1.00	
Sherman, J. H.,	7.69	
Street Department,	94.80	
Sturtevant, W. F.,	.50	
Tillinghast, W. A.,	91.78	$8,394.89
To transfer to balance,		286.97
		$8,681.86

Cr.

By appropriation,	$5,000.00	
Appropriation, special,	3,500.00	
Cash receipts, as per Treasurer's report,	181.86	$8,681.86

INCIDENTALS.

Dr.

Advertising, Printing, &c.:		
Anthony, E. & Sons,	$1.67	
Knight, C. W.,	2.13	$3.80
Assessors:		
Anthony, E. & Sons,	$6.00	
Cook, E. H.,	31.00	
Galligan, J. H.,	1.00	
Kelley, J. S. & Son,	1.50	
Mercury Pub. Co.,	2.33	
Mills, M. T.,	321.00	
Paul, Frank,	172.50	
Peirce, E. M.,	15.00	
Perry, G. W.,	49.25	
Perry, S. F. & Son,	1.50	
Rodgers, J. D.,	68.50	
Ruggles, J. A., Jr.,	5.00	
Russell, H. C.,	327.00	
Russell, W. A.,	5.85	
Searles, Mortimer,	1.30	
Sherman, W. H.,	12.00	
Slater, James,	124.50	
Terry, C. A. V.,	7.50	
Topham, R. R.,	469.50	
Tuell, C. A.,	102.50	1,724.73
Damages, Legal Expenses, &c.:		
Allen, R. N.,	$.60	
Almy, W. P.,	140.00	
Bourne, G. A.,	25.00	
Burke, Charles, Est.,	56.40	
Clifford, C. W.,	100.00	
City Solicitor,	47.32	
Cobb, W. H.,	25.00	
Cohen, Morris,	50.00	
Dean, Frank W.,	127.50	
Donbavend, Harold,	.60	
Dunham, H. L.,	142.00	
Greene, M. S.,	.60	

Hamel, Joseph, and Malvina Pelletier,	$75.00	
Hathaway, H. C.,	.60	
Holmes, L. LeB.,	62.30	
Hornblower, Dr. W. H.,	10.00	
Kepst, Andrew,	.60	
Knowlton, H. M.,	100.00	
Macy, Frederick,	.60	
Marshall, Manuel,	100.00	
Martin, E. H.,	.60	
Matthews, Edwin,	7.74	
Maxfield, Edmund, Est.,	610.00	
McDonald, Hugh,	.60	
McNamee, Michael,	450.00	
N. B. Real Estate Association,	250.00	
Nelson, George,	5.12	
Parker, G. W.,	.60	
Quimet, Emma,	.60	
Quimet, Fred.,	.60	
Roy, Clothier,	.60	
Russell, W. A.,	1,000.00	
Smith, Elizabeth B.,	30.00	
Sutton, Abraham,	.60	
Taber, R. W.,	.26	
Tripp, T. B.,	75.00	
West, W. R.,	12.62	
Whitehead, John,	10.00	
Wilbur, J. T.,	250.00	
York, G. A.,	.60	$3,769.66

Elections:

Faunce, L. H.,	$58.23	
Briggs & Lawrence,	1.20	
Hayden, W. G.,	28.35	
Jason, A. V.,	10.00	
Jones, I. M.,	7.00	
King, P. H.,	6.00	
Kirby & Hicks,	10.50	
Lincoln, E. C.,	2.12	
Notter, John,	.25	
Perry, S. F. & Son,	9.00	
Precinct officers,	1,079.00	
Richards, W. D.,	7.00	
Saxon, G. E.,	24.00	
Sherman, W. H.,	12.00	
Taber, C. G.,	10.00	1,264.65

LABOR AND CLEANING:

McAuliffe, D. J.,	$592.50	
Piper, A. D.,	122.00	
Piper, D. M.,	554.73	
Piper, J. A.,	18.00	$1,287.23

LIGHT AND FUEL:

Crapo's Steam Mill:	$5.26	
Edison Electric Ill. Co.,	1,385.55	
Hart & Akin,	484.12	
N. B. Gas Light Co.,	1,138.76	
Phillips, Lawson,	56.80	3,070.49

BIRTH, MARRIAGE, AND DEATH RETURNS:

Dehn, Dr. E. W.,	$1.25	
Fortin, Dr. J. E.,	12.25	
Hough, Dr. G. T.,	3.25	
Hough, Drs. G. T. & G. De N.,	3.75	
Jameson, Esther M.,	3.00	
Jean, J. B.,	32.25	
Leonard, D. B.,	744.70	
Leonard, Dr. M. H.,	22.00	
Lussier, Dr. C. F.,	11.00	
Murphy, T. J.,	33.25	
Nickerson, Dr. W. J.,	1.50	
Normandin, Dr. L. Z.,	43.50	
Potter, Dr. W. G.,	1.00	
Richardson, Sarah E.,	2.50	
St. Germain, Dr. J. P.,	6.00	
Sullivan, J. D.,	11.75	
Sullivan, Dr. J. F.,	1.25	
Thompson, Elizabeth,	4.75	
Vaughan, W. C., Jr.,	57.75	
Webber, Dr. A. P.,	6.75	
Webster, Dr. H. W.,	9.50	
Williams, J. S.,	27.50	
Wilson, E. T.,	92.00	1,132.45

FOURTH OF JULY:

Anthony, E. & Sons,	$104.94	
Barrows, J. H.,	1.10	
Bradley, W. E.,	10.00	
Briggs & Lawrence,	9.68	

Brownell, B. F.,	$59.70	
Cash prizes,	885.75	
Caswell, A. R.,	10.00	
Charlie, Tug,	1.00	
Cornell & Swift,	13.00	
Faunce, L. H.,	60.24	
Gardiner, E. C.,	3.75	
Hazzard, A. L.,	6.25	
Jenney, H. C.,	3.60	
Kennedy, J. P.,	4.45	
Kirby & Hicks,	7.00	
Macy, Frederick,	8.70	
McFarlin, James,	8.00	
Mercury Pub. Co.,	79.06	
Mulberry, W. H.,	4.00	
Musical Exchange Band,	210.00	
New Bedford Band,	240.00	
Norton, H. F.,	25.00	
Pairpoint Mfg. Co.,	158.25	
Piper, A. D.,	10.00	
Smith, Hoyland,	11.00	
Street Department,	6.00	
Tilton, H. H. & Co.,	533.00	
Turner, J. H.,	200.00	
Union Street Railway Co.,	12.50	
Union Veteran Legion,	105.00	
Wheaton, Hiram & Sons,	31.00	
Wood, C. H.,	6.00	$2,827.97

Inspector of Milk and Provisions:

Anthony, E. & Sons,	$6.00	
Ashley, Dr. D. C.,	175.91	
Bourne, G. A. & Son,	3.25	
Corson, T. S.,	6.50	
Jenkins, B. S.,	11.20	
So. Mass. Telephone Co.,	39.00	
Soule, F. A.,	23.40	265.26

Land Surveyor's Office:

Benoit, A. V.,	$3.75	
Buff & Berger,	272.25	
Carter, Rice & Co.,	26.50	
Drake, A. B.,	3,506.48	
Frost & Adams,	195.33	
Street Department,	126.38	4,130.69

MISCELLANEOUS:

Acushnet Iron Co.,	$25.00
Almy, J. T.,	1.50
Almy & Hitch,	3.60
Anthony, E. & Sons,	24.00
Ashley, I. L.,	54.25
Assessors,	75.00
Bancroft, J. V.,	56.00
Baylies, Clifford,	179.00
Beetle, R.,	25.00
Bliss, G. C.,	1,556.24
Bliss, G. H.,	32.10
Briggs, D. D.,	38.97
Briggs & Lawrence,	26.00
Brightman, C. O.,	271.39
Brownell, H. M.,	25.55
Caldwell, A. F.,	9.27
Central Union Association,	.88
Chamberlain, C. C.,	53.25
Coe, I. H.,	150.00
Coggeshall, C. W.,	15.42
Coggeshall, Maxfield & Co.,	42.80
Crapo, Mrs. Sarah,	6.43
Cummings, C. S. & B.,	33.01
Cushing, C. F.,	5.00
Davis, C. F.,	282.00
Davis, O. A.,	8.25
Dews, Edwin,	27.00
Douglass, F. M.,	2.88
Driscol, Church & Hall,	22.70
Durfee, Thomas,	4.00
Expenses of City Offices and Committees,	1,041.85
Footman, J. W.,	2.00
G. A. R. Posts,	500.00
Gammons, E. H.,	12.00
Greenough, W. A. & Co.,	16.00
Grinnell, Edmund,	4.95
Hamblin, Mary F.,	34.50
Hammond Type Writer Co.,	5.00
Hart, T. M. & Co.,	9.07
Hawes, Levi, estate,	75.00
Howland, Jonathan, Jr.,	7.00
Kelley, W. L.,	17.00
Kempton, David, 2d, estate,	93.75

Kirby & Hicks,	$61.00
Leonard, H. A.,	7.26
Lowe, S. C.,	95.04
Lyon Platinum Pen Co.,	3.00
Maxfield, G. F.,	3.00
Mercury Pub. Co.,	30.00
Mills, M. T.,	52.50
Moriarty Bros.,	3.05
N. B. Cordage Co.,	8.53
N. B. Ice Co.,	113.00
N. B. Towboat Co.,	46.00
Old Colony Railroad Co.,	565.00
Paul, Frank,	70.00
Perry, G. W.,	25.00
Perry, S. F. & Son,	41.00
Phillips, H. T.,	10.00
Pitman, H. L.,	52.00
Pope, A. P.,	4.45
Proprietors of Ricketson block,	825.00
Purrington & Brown,	.37
Richards, G. D.,	45.58
Rodgers, J. D.,	45.00
Russell, C. C.,	12.50
Russell, C. D'O.,	18.75
Russell, H. C.,	57.50
Sanders, William, Supt.,	315.60
Sanders & Barrows,	3.90
Searles, Mortimer,	11.05
Sherman, C. R. & Son,	16.27
Sherman, Ruth S.,	618.86
Sherman, W. H.,	8.00
Skiff, A. J.,	1.35
Slater, James,	157.50
Snow, R. W.,	4.15
Snow & Gilbert,	16.09
So. Mass. Telephone Co.,	486.28
Sowle, F. A.,	4.05
Street Department,	2.38
Swift, Dr. W. N.,	9.00
Sylvia, M. P.,	4.70
Topham, R. R.,	216.50
Tuell, C. D.,	46.25
Wood, S. B.,	9.00
Whiting, E. B. & Co.,	5.40

Wood, Brightman & Co.,	$.35	
W. & R. Wharf,	150.00	
W. U. Telegraph Co.,	8.86	$9,308.36
		$28,785.29

Cr.

By appropriation,	$4,761.00	
Appropriation, special,	21,400.00	
Cash receipts, as per Treasurer's report,	28.60	$26,189.60
Transfer to balance,		2,595.69
		$28,785.29

POLICE DEPARTMENT.

Dr.

Salaries:		
Daniel A. Butler, chief,	$1,500.00	
Luther M. Dayton, captain,	1,100.00	
James L. Wilber, captain,	1,100.00	
Lemuel D. Adams, lieutenant,	1,000.00	
Timothy C. Allen, lieutenant,	1,000.00	
Seth E. Bryant, lieutenant,	1,000.00	
Frederick Hussey, lieutenant,	1,000.00	
Ellery Peirce, lieutenant,	1,000.00	
Thomas J. Taft, lieutenant,	1,000.00	
Henry N. West, clerk,	600.00	$10,300.00
Pay-Rolls:		
Pay of regular officers, housekeepers, &c.,	$46,023.84	
Pay of special police,	4,468.70	50,492.54
Carriage and Horse Hire:		
Ames, H. M.,	$4.00	
Ashley, I. L.,	150.25	
Bradley, W. E.,	57.20	
Brown, J. A.,	83.75	
Brownell, J. F.,	232.30	
Cook, Robert,	42.00	
Cornell & Swift,	48.05	
Hayden, Eugene,	84.70	
Kirby & Hicks,	42.55	
Peirce, E. M.,	81.55	
Peirce, J. H.,	9.00	
Reynolds, E. G.,	52.35	
Richards, W. D.,	218.50	
Sherman, W. H.,	112.70	
Snow, George,	3.00	
Warren, David,	10.35	1,232.25
Supplies:		
Bliss & Nye,	$11.13	
Briggs & Lawrence,	30.17	
Crapo's Steam Mill,	5.00	
DeWolf & Vincent,	13.20	

Dews, Edwin,	$59.35	
Doane, R. N. B.,	13.00	
Driscol, Church & Hall,	35.18	
Evans, D. & Co.,	54.33	
Fisher, H. H.,	11.40	
Folger, D. B.,	11.47	
Hadley, F. R.,	3.50	
Hart, T. M. & Co.,	1.25	
Hart & Akin,	383.08	
Hutchinson, H. S. & Co.,	.50	
Lawton, C. H. & H. A.,	5.63	
Lerned, C. W. & Co.,	3.25	
Moore & Diman,	7.25	
N. B. Ice Co.,	89.10	
Richmond, S. P. & Co.,	26.28	
Ripley, C. W.,	252.85	
Sanders & Barrows,	5.75	
Sherman, C. R. & Son,	3.70	
Swift, M. C. & Son,	.75	
Taber, R. W.,	22.93	
Tillson, H. H.,	1.25	
Waite, B. H. & Co.,	23.41	
Watson & Fuller,	71.70	
Whittemore, M. F.,	3.00	
Wing, C. F.,	16.65	
Young, Emma,	76.55	$1,242.61

MISCELLANEOUS:

Allen, C. G.,	$2.50	
Anthony, E. & Sons,	32.42	
Arnett, J. W.,	12.72	
Bailey, Dr. G. P.,	3.00	
Barney, E. L.,	55.00	
Brady, J. W.,	3.45	
Brownell, Olive A.,	22.50	
Butler, D. A., expenses,	236.98	
Butler, D. A., keeper of lockup,	100.00	
Cannavan, Patrick,	4.28	
Dehn, Dr. E. W.,	9.00	
Dowden, James,	19.21	
Drew, M. C.,	710.00	
Edison Electric Ill. Co.,	59.86	
Faber, Annie E.,	18.50	
Gendron, G. E.,	9.75	

Gifford, O. E.,	$22.83	
Gifford, T. J. & Co.,	48.80	
Grinnell, Edmund,	4.14	
Hathaway, F. L.,	2.25	
Hathaway, Nath.,	10.00	
Howland, T. D.,	11.33	
Jones, A. H.,	1.45	
Kelley, W. L.,	2.50	
Kempton, F. A., estate,	24.75	
Mackie, Dr. J. H.,	4.00	
Maine, H. M.,	1.34	
Mercury Pub. Co.,	21.38	
Milliken, F. A.,	10.00	
Moynan, Robert,	8.60	
N. B. Boiler & Machine Co.,	13.19	
N. B. Gas Light Co.,	540.09	
Parker, J. C.,	32.10	
Perry, Dr. E. B.,	8.00	
Pope, A. P.,	20.47	
Sisson, S. S. M.,	54.00	
So. Mass. Telephone Co.,	296.60	
Sowle, F. A.,	1.20	
St. Germain, Dr. J. P.,	18.20	
Sullivan, Timothy,	10.58	
Swift, Dr. W. N.,	2.00	
Taylor, Dr. W. H.,	10.00	
Tripp, S. A.,	20.08	
Viall & Cook,	200.04	
Waite, Dr. E. E.,	2.00	
Wilber, S. B.,	46.66	
Wilson, E. T.,	7.50	
Wood, Anna G.,	40.00	
Wood, R. B.,	17.31	
Wood, Brightman & Co.,	2.75	$2,815.31
		$66,082.71

Cr.

By appropriation,	$57,000.00	
Cash receipts, as per Treasurer's report,	6,507.30	$63,507.30
Transfer to balance,		2,575.41
		$66,082.71

FIRE DEPARTMENT.

Dr.

Pay-Rolls:

Permanent men,	$15,840.48	
Engine companies,	9,231.86	
Engineers,	1,920.08	
Protecting Society,	150.00	$27,142.42

Repairs of Engines, Harness, &c.:

Allen, Jesse,	$8.17	
Berry, C. E.,	10.00	
Brownell, G. L.,	.75	
Brownell, Ashley & Co.,	219.76	
Cronin, William,	156.36	
Cushing, C. F.,	4.75	
Fichtenmayer & Flynn,	173.20	
Forbes, J. R. & Co.,	171.68	
Gifford's Brass Foundry,	15.96	
Healy, T. F.,	57.60	
Lowell, Clarence,	59.05	
Macy, E. B.,	142.44	
N. B. Boiler & Machine Co.,	57.25	
Strange, F. W.,	20.00	1,096.67

Repairs of Engine Houses:

Briggs, N. C.,	$1.50	
Gardner & Southwick,	93.58	
Gifford, T. J. & Co.,	8.98	
Greene, M. S.,	4.35	
Greene, N. H.,	8.00	
Greene & Wood,	82.66	
Hammond, F. W.,	20.95	
Hart & Akin,	.63	
Holmes, D. W.,	2.20	
Parker, W. W. & Co.,	3.25	
Snow, R. W.,	27.51	
Snow & Gilbert,	4.22	
Stubbs, H. C.,	29.18	
West, W. R.,	8.49	295.50

HAY, GRAIN, FUEL, &C.:

Baylies, William,	$307.58	
Brayton, G. H.,	32.00	
Brownell, J. T.,	77.76	
Davis, James,	119.71	
Denison Bros.,	307.58	
Duff, David & Son,	126.85	
Hammond, F.,	6.87	
Hart & Akin,	541.81	
Hathaway, A. G.,	12.78	
Hathaway & Nye,	2.25	
Howland, J. W.,	90.85	
Jenney, W. A.,	29.70	
Kirk, John,	289.99	
Lawton, W. J.,	388.93	
Macomber Bros.,	66.15	
Poor Department,	654.10	
Potter, D. H.,	209.73	
Randall, L.,	18.60	
Stanton, J. E.,	59.67	
Tinkham, N.,	120.64	$3,463.55

SUPPLIES:

Acushnet Iron Co.,	$29.62	
American Tube Works,	61.53	
Bennett, S. R.,	4.00	
Boston Chemical Co.,	8.75	
Briggs & Lawrence,	43.00	
Broad Gauge Iron Works,	2.40	
Carpenter, H. F.,	73.36	
Carr Metal Co.,	7.94	
Clapp & Jones Mfg. Co.,	222.00	
Cornelius Callahan Co.,	961.90	
Cummings, C. S. & B.,	4.30	
Daniels, Dr. A. C.,	32.00	
DeWolf & Vincent,	1.59	
Dews, Edwin,	14.75	
Donaghy, Thomas,	1.13	
Driscol, Church & Hall,	22.99	
Eastern Electric Cable Co.,	9.14	
Eastman, Samuel & Co.,	35.00	
France, S. C.,	8.50	
Gardner & Southwick,	2.17	
Greene & Wood,	24.38	

Hadley, F. R.,	$77.83	
Hall, A. D.,	2.25	
Hart, T. M. & Co.,	12.25	
Hart & Akin,	9.62	
Hayes, N. P.,	1.00	
Hersom, Thomas & Co.,	2.50	
Homer, G. S.,	5.00	
Johnson, N. B. & Co.,	9.00	
Kirby, C. L.,	8.50	
LaFrance Fire Engine Co.,	16.25	
Lawton, C. H. & H. A.,	7.48	
Lowe, S. C.,	5.15	
Manchester, F. W.,	8.64	
Morse Twist Drill & Machine Co.,	3.00	
National Electric Protector Co.,	60.00	
N. B. Copper Co.,	10.75	
N. B. Cordage Co.,	11.94	
N. B. Ice Co.,	119.39	
N. B. Water Works,	100.00	
N. E. Horse Condiment Co.,	8.00	
Pairpoint Mfg. Co.,	70.55	
Pearsall, C. W. & Co.,	15.00	
Pierce & Sowle,	6.49	
Richards, G. D.,	29.54	
Robinson, W. A. & Co.,	7.65	
Rogers & Becrow,	358.95	
Sherman, C. R. & Son,	4.72	
Sherman & Habicht,	19.50	
Sullings, Kingman & Co.,	59.98	
Swift, M. C. & Son,	13.00	
Taber, R. W.,	1.75	
Thomas, George,	15.40	
Vest, R. J.,	6.00	
Ward, S. B.,	15.00	
Washburn & Moen Mfg. Co.,	212.96	
Whiting, E. B. & Co.,	48.64	
Williams, J. S.,	36.00	
Wing, C. F.,	38.03	
Wood, Brightman & Co.,	5.75	$3,013.91

MISCELLANEOUS:

Anthony, E. & Sons,	$63.00	
Ashley, Dr. D. C.,	2.50	
Ashley, I. L.,	2.00	

Bancroft, J. V.,	$21.50
Barlow, Edward,	4.00
Bates, J. W. & Co.,	15.00
Bertram, John,	31.50
Brownell, Joseph, Heirs of,	85.00
Card, C. H.,	146.26
Caswell, N. H.,	36.85
Douglass, J. O.,	656.00
Duff, David & Son,	134.88
Dunklee, Herbert,	4.00
Dunlap, A. A.,	106.00
Durfee, E. M.,	192.58
Edison Electric Illuminating Co.,	320.56
Fichtenmayer & Flynn,	15.80
Footman, J. W.,	66.45
Gray, C. A.,	62.73
Grinnell, Edmund,	4.02
Hart & Akin,	5.00
Hatch, G. E.,	18.20
Hathaway, A. E.,	9.75
Kane, M. F.,	175.00
Kelley, C. S.,	24.00
Kirby & Hicks,	2.25
Leonard, H. A.,	3.30
Leonard & Gilbert,	3.41
Littlefield, L. A.,	3.75
Macy, Frederick,	449.44
Mercury Pub. Co.,	6.00
N. B. Band.,	60.00
N. B. Gas Light Co.,	388.56
Old Colony R. R. Co.,	82.05
Perry, S. F. & Co.,	21.50
Reed, E. W.,	5.00
Reed, W. P.,	6.00
Roach, E. R.,	17.65
Sargent, F. H.,	13.75
Sheehan, T. T.,	12.00
Sherman, C. R. & Son,	1.80
Sherman, W. H.,	11.25
Silvia, John,	12.00
So. Mass. Telephone Co.,	376.19
St. Germain, Peter,	225.00
Street Department,	5.51
Sullivan & Holmes,	60.00
Swan, W. D. & Son,	.75

Tripp, S. A.,	$10.25	
U. S. Express Co.,	1.90	
Warren, David,	17.00	$3,998.89
		$39,010.94

Cr.

By appropriation,	$35,000.00	
Appropriation, special,	500.00	
Cash receipts, as per Treasurer's report,	525.11	$36,025.11
Transfer to balance,		2,985.83
		$39,010.94

POOR DEPARTMENT.

Dr.

Salaries:

Orrick Smalley, secretary,	$1,261.04	
Thomas H. Knowles,	250.00	
William H. Mathews,	250.00	
Ella F. Bucklyn, clerk,	550.80	
Dr. C. A. B. Peterson, physician,	28.48	
Dr. E. E. Waite, physician,	1,591.52	
P. S. Macy, supt. almshouse,	850.00	
Rev. G. T. Flanders, chaplain,	147.00	
Samuel Dammon, supt. wood-yard,	360.00	$5,288.84

Groceries:

Acushnet Coöp. Association,	$218.25	
Alley, A. G., Jr.,	200.00	
Barlow, J. & Co.,	89.00	
Barstow, N. & Co.,	36.00	
Bates, J. W. & Co.,	201.50	
Bates, L. B.,	61.00	
Bliss, F. C. & Son,	265.00	
Bradford, W. L.,	63.00	
Braley, J. W.,	28.00	
Braley, J. W., Jr.,	86.00	
Bromley, David,	135.50	
Brownell, C. H. & Sons,	315.50	
Burgess, Thomas & Son,	60.50	
Carrier, Peter,	3.00	
Cedar Street Coöp. Association,	106.00	
Central Union Association,	519.50	
Chappell, W. H.,	96.00	
Chase, Z. W.,	38.00	
Chausse, Joseph,	20.00	
Clark, Robert,	43.50	
Coxen & Tripp,	6.00	
Cummings, C. S. & B.,	133.50	
Davenport, Dudley,	38.00	
Davenport, G. E.,	106.00	
Davis, C. S.,	121.00	
Davis, James,	97.50	
Desautels, S.,	114.00	

Dillingham, A. L.,	$5.00
Dugan, M.,	251.50
Dyer, J. E.,	31.50
Folger, D. B.,	623.00
Francis, J. B.,	220.00
Frasier, E. M.,	185.00
Galligan, C. A.,	3.00
Galligan, J. T.,	30.00
Gatie, Joseph,	28.50
Gifford, E. B.,	93.75
Gray Bros.,	276.76
Greenwood, John,	34.00
Hammond, H. S.,	295.80
Harrington, D. H.,	2.00
Hindle, William,	153.50
Holcomb, Monroe,	404.00
Holcomb, Roland,	61.00
Howland, C. H.,	153.50
Howland, Ebenezer,	52.60
Hunter, George,	220.50
Industrial Coöperative Association,	94.00
Knowles, W. H.,	20.00
Koster, Jacob,	32.00
Krofka, John,	27.00
La France, L. M.,	75.50
Lapham, L. M.,	25.50
Leavitt, Clark,	114.50
Lebeau, Moses,	10.50
Lenhart, Ignatz,	26.00
Lowe, James & Co.,	108.00
Lowe, J. H.,	125.00
Macomber, G. W.,	48.00
Macy, J. Roland,	8.00
Magnant, Joseph,	20.00
McCloskey & Reilly,	66.00
McDonald, Michael,	1.50
McDonald Bros.,	42.50
Mello, M. B.,	16.00
Milliken, L. E.,	34.00
Moncrief, W. T.,	20.00
Morse, C. M., Jr.,	19.00
Moulton, F. F.,	8.00
Murphy, Thomas,	216.00
Notter, John,	29.00
Nye, Alfred,	130.00

Palmer, W. L.,	$119.00	
Patnaude, J. C.,	74.50	
Patnaude, Napoleon,	21.00	
Pelan, Thomas,	142.00	
Perry, W. A.,	30.50	
Raymond, R. F.,	4.00	
Robinson, Daniel,	40.00	
Rock, James,	89.00	
Rogers, J. H.,	2.00	
Rose, David,	21.50	
Ruggles, D. W.,	26.00	
Russell, Allen, Jr.,	48.00	
Sherratt & Slocum,	18.00	
Slocum, W. C.,	18.00	
Smith, E. B.,	112.44	
Smith Bros.,	13.50	
Spooner, E. F.,	22.00	
Sullivan Bros.,	133.00	
Taber, O. R. & Son,	60.00	
Taylor, J. C.,	30.00	
Tilton, J. M.,	54.00	
Tonge, William,	70.50	
Vignault, U.,	53.00	
Washburn, A. R.,	221.50	
Weeks, H. T.,	66.50	
Wood, Elihu, Jr.,	35.00	
Wright, J. A.,	1.50	$9,168.60
Boots, Shoes, and Clothing:		
Davis, J. & Co.,	$4.50	
Devoll, P. & Son,	2.00	
Doane, J. H. J.,	5.50	
Donaghy, Thomas,	4.00	
Hathaway, H. C.,	3.00	
Lee, John,	3.00	
Lucas, A. E.,	1.00	
Nichols & Damon,	2.75	
Perry, S. H.,	2.00	
Sanders & Barrows,	5.95	
Union Boot & Shoe Co.,	11.49	
Wilcox, C. S.,	1.50	46.69
Fuel:		
Douglass, M. S.,	$589.46	
Grinnell, Edmund,	11.52	
Hart & Akin,	1,095.61	
Street Department,	425.70	2,122.29

BURIALS:

Jean, J. B.,	$183.00	
Murphy, T. J.,	99.50	
Vaughan, W. C., Jr.,	194.00	
Williams, J. S.,	178.00	
Wilson, E. T.,	263.00	$917.50

MISCELLANEOUS:

Anthony, E. & Sons,	$23.60	
Ashley, I. L.,	2.00	
Blake, J. E.,	2.50	
Bliss & Nye,	2.05	
Briggs & Lawrence,	9.00	
City Carpet Beating Establishment,	4.65	
City Treasurer,	1,745.07	
Damon, Mrs. C. H.,	64.50	
Davis, O. A.,	5.00	
DeWolf & Vincent,	2.65	
Dews, Edwin,	16.36	
Greenough, W. A. & Co.,	2.00	
Hammond Type Writer Co.,	100.00	
Harris, Edmund,	93.00	
Hayes, N. P.,	.60	
Lawton, C. H. & H. A.,	5.50	
Mara, Dr. J. C.,	1.25	
Mercury Pub. Co.,	19.62	
Murphy, F. A.,	1.50	
N. B. Ice Co.,	10.20	
Old Colony R. R. Co.,	164.85	
Perry, S. F. & Son,	9.50	
Piper, D. M.,	5.00	
Schooner Rebecca J. Evans,	15.00	
Sherman, C. R. & Son,	2.75	
Sherman, W. H.,	3.00	
Snow, Loum & Son,	119.00	
So. Mass. Telephone Co.,	58.00	
St. Luke's Hospital,	70.28	
Swan, W. D. & Son,	21.00	
Taber, R. W.,	1.31	
Wood, Brightman & Co.,	9.93	2,590.67

Paid State and Hospitals for Board of Persons Out of the City:

Commonwealth of Massachusetts,	$162.47	
Massachusetts School for Feeble Minded,	98.86	
Taunton Lunatic Hospital,	6,892.12	
Westborough Insane Hospital,	346.35	
Worcester Insane Asylum,	169.46	
Worcester Lunatic Hospital,	169.46	$7,838.72

Paid Cities and Towns for Supplies and Board of Persons Out of the City:

Barnstable,	$8.75	
Boston,	189.48	
Brockton,	24.05	
Chelsea,	16.75	
Dartmouth,	54.00	
Fall River,	102.32	
Falmouth,	68.00	
Lawrence,	7.00	
Mattapoisett,	12.00	
Nantucket,	72.00	
Plymouth,	45.25	
Springfield,	80.00	
Taunton,	58.61	
Worcester,	31.71	
Wrentham,	41.50	811.42

ALMSHOUSE.

Clothing, Hats, Caps, &c.:

Davis, J. & Co.,	$85.88	
Devoll, P. & Son,	17.95	
Doane Bros.,	69.90	
Doane & Sons,	15.50	
Donaghy, Thomas,	8.54	
Faisneau, G. E.,	75.32	
Knowles & Co.,	11.87	
Lucas, A. E.,	17.25	
Moore & Diman,	97.08	
Sanders & Barrows,	18.75	
Taber, Read & Gardner,	26.00	
Tillson, H. H.,	3.25	
Wing, J. & W. R. & Co.,	15.00	462.29

FURNISHINGS AND SUPPLIES:

Bennett, S. R.,	$21.04	
Blake, J. E.,	37.79	
Bliss & Nye,	13.94	
Borden, C. M.,	100.71	
Bowen, G. S. & Son,	5.50	
Briggs & Lawrence,	6.50	
Brownell & Co.,	1.10	
Cash, Stillman,	7.00	
Clark, M. V.,	6.21	
Delano, George's Sons,	1.80	
DeWolf & Vincent,	15.43	
Dews, Edwin,	1.25	
Douglass, F. M.,	30.85	
Fire Department,	279.04	
Globe Gas Light Co.,	5.20	
Greene & Wood,	.85	
Hadley, F. R.,	75.16	
Handy, Jonathan,	2.69	
Hart, T. M. & Co.,	3.40	
Hart & Akin,	624.69	
Hathaway, H. C.,	27.05	
Hayes, N. P.,	12.54	
Lawton, C. H. & H. A.,	63.30	
Leonard, Samuel & Sons,	25.30	
Macy, Frederick,	15.98	
McCullough, John,	22.07	
Mosher & Brownell,	2.05	
Paine, S. S. & Bro.,	11.73	
Pope & Wood,	57.50	
Richards, G. D.,	8.00	
Richmond, S. P. & Co.,	36.83	
Russell, S. H.,	21.98	
Sherman, E. B.,	67.53	
Sullings, Kingman & Co.,	34.03	
Taber, R. W.,	1.08	
Taylor, H. J. & Son,	5.63	
Wing, C. F.,	3.54	
Wright, E. E.,	4.65	$1,660.94

PROVISIONS AND GRAIN:

Baylies, William,	$425.50	
Brownell, E. C.,	1,007.45	
Cummings, C. S. & B.,	202.33	
Davis & Hatch,	148.57	
Denison Bros.,	582.89	
Driscol, Church & Hall,	909.50	
Gifford, F. S.,	26.10	
Macomber Bros.,	254.94	
Macy, J. Roland,	107.43	
Macy, P. S., Jr.,	49.38	
Macy & Flynn,	9.72	
Potter, W. F. & Co.,	262.47	
Sherman, I. C. & Son,	38.75	
Smith & Wordell,	90.78	
Snell, D. A.,	.98	
Wing, Samuel,	9.00	$4,125.79

MISCELLANEOUS:

Almshouse help,	$3,038.18	
Almy & Hitch,	9.00	
Anthony, E. & Sons,	6.00	
Brightman, A.,	13.00	
Brightman, Daniel,	11.92	
Brownell, G. L.,	14.25	
Brownell, Ashley & Co.,	187.35	
Cronin, William,	2.77	
Cushing, C. F.,	12.45	
Dean, Lafayette,	15.00	
Delano, Gustavus,	65.55	
Grinnell, Edmund,	6.20	
Jenney, P. P. & Son,	8.20	
Kelley, W. L.,	6.65	
Kirby & Hicks,	30.00	
Magoon, W. M.,	15.45	
Mara, Dr. J. C.,	5.25	
Mercury Pub. Co.,	6.00	
Mosher, F. P.,	27.60	
Peterson, Dr. C. A. B.,	1.25	
Sherman, W. D.,	21.60	
So. Mass. Telephone Co.,	44.75	
Street Department,	11.90	

Tripp, S. A.,	$51.36	
White, Phineas,	28.90	
Wilson, D. W.,	201.00	
Wood, Brightman & Co.,	4.89	$3,846.47
		$38,880.22
To transfer to balance,		2,480.53
		$41,360.75

Cr.

By appropriation,	$30,000.00	
Appropriation, special,	1,500.00	
Cash receipts, as per Treasurer's report,	9,860.75	$41,360.75

UNAPPROPRIATED FUNDS.

Dr.

To transfers to:		
Appropriations, special, 1890,	$52,880.81	
Appropriations, special, 1889,	20,556.07	
Cemeteries,	661.86	
Com. of Mass., Chap. 298 of 1889,	520.00	
Engine House at Head of the River,	29.46	
Fire Department,	2,985.83	
Free Public Library,	73.23	
Highways and Streets,	4,142.79	
Lighting the Streets,	76.35	
Parks and Squares,	156.17	
Police Department,	2,575.41	
Printing, Binding, and Stationery,	178.29	
Repairs of City Property,	331.26	
Sewers, General Account,	89.43	
Sewers, Fruit street,	24.42	
Truant School,	449.86	$85,731.24

Cr.

By cash receipts, as per Treasurer's report,	$85,731.24

BALANCE OF PUBLIC PROPERTY.

Dr.

To bonds issued,	$73,000.00	
1891, Jan. 5. To balance,	1,007,916.79	$1,080,916.79

Cr.

1890, Jan. 6. By balance,	$944,354.75	
By bonds paid,	45,000.00	
Commissioners of Sinking Funds,	32,862.04	
Increase in valuation,	58,700.00	$1,080,916.79

Cr.

1891, Jan. 5. By balance,	$1,007,916.79

PUBLIC PROPERTY.

(OTHER THAN WATER WORKS.)

Dr.

1890, Jan. 6. To balance,	$1,031,900.00	
To excess of valuation over 1889,	58,700.00	$1,090,600.00

Cr.

1891, Jan. 5. By balance,	$1,090,600.00

Dr.

1891, Jan. 5. To balance,	$1,090,600.00

SINKING FUND COMMISSIONERS.

DR.

1890, Jan. 6.	To balance,	$80,454.75	
	To increase in hands of Commissioners over 1889,	32,862.04	$113,316.79

CR.

1891, Jan. 5.	By balance,	$113,316.79

DR.

1891, Jan. 5.	To balance,	$113,316.79

NEW BEDFORD WATER WORKS.

(AS PUBLIC PROPERTY.)

DR.

1891, Jan. 5.	To valuation of works,	$1,200,000.00

BONDS.

Dr.

To bonds paid,	$45,000.00	
1891, Jan. 5. To balance,	1,296,000.00	$1,341,000.00

Cr.

1890, Jan. 6. By balance,	$1,268,000.00	
By bonds issued,	73,000.00	$1,341,000.00

Cr.

1891, Jan. 5. By balance,	$1,296,000.00

PRINTING, BINDING, AND STATIONERY.

Dr.

Anthony, E. & Sons,	$4,048.17	
Dews, Edwin,	1,317.89	
Hobbs, Samuel & Co.,	21.50	
Hutchinson, H. S. & Co.,	64.12	
Journal Pub. Co.,	253.60	
Knight, C. W.,	1.50	
Mercury Pub. Co.,	1,051.40	
Taber, R. W.,	420.11	$7,178.29

Cr.

By appropriation,	$5,000.00	
Appropriation, special,	2,000.00	$7,000.00
Transfer to balance,		178.29
		$7,178.29

PUBLIC DEBT.

Dr.

1890, Jan. 6. To balance,		$2,234.86
To principal (bonds) paid,	$45,000.00	
Interest on bonds,	66,410.00	
Interest on trust funds,	6,706.00	
Interest on notes,	12,007.04	130,123.04
		$132,357.90

Cr.

By appropriation,	$121,045.87	
Cash receipts, as per Treasurer's report,	5,056.78	$126,102.65
1891, Jan. 5. By balance,		6,255.25
		$132,357.90

HIGHWAYS AND STREETS.

Dr.

Pay-Rolls:		$73,875.78
Teaming:		
Acushnet Iron Company,	81.82	
Allen, A. W. & Son,	5.45	
Am. Horse Protector Co.,	72.00	
Ashley, Dr. D. C.,	2.25	
Ashley, I. L.,	864.00	
Bailey, G. P.,	2.50	
Bliss, G. C.,	3.41	
Brownell & Co.,	32.65	
Brownell, G. L.,	80.00	
Coggeshall, A. H.,	2.00	
Coggeshall, C. W.,	22.70	
Cronin, William,	506.39	
Cushing, C. F.,	7.10	
Daniels, Dr. A. C.,	32.00	
Dunlap, A. A.,	3.50	
Durfee, E. M.,	8.28	
Fichtenmayer & Flynn,	32.03	
Footman, J. W.,	7.10	
Fuller, N. T.,	101.00	
Gage, J. N.,	515.61	
Hadley, F. R.,	45.82	
Hathaway, A. E.,	80.76	
Hathaway, L. J.,	1,039.52	
Hornblower, Dr. W. H.,	37.50	
Johnson, N. B. & Co.,	1.50	
King, W. F.,	1.66	
Lowell, Clarence,	147.20	
Lucas, A. E.,	9.58	
Luce, J. L.,	10.28	
Maxfield, Wm. & Son,	3.01	
Roach, E. R.,	3.00	
Stubbs, H. C.,	8.60	
Suffolk Company,	24.00	
Sylvia, A. A.,	30.00	
Whittaker, Edward,	3.50	
Wood, Brightman & Co.,	23.65	3,771.37

HAY, GRAIN, &C.:

Alden, Seth,	$174.64	
Barnard, G. M.,	259.37	
Baylies, William,	349.16	
City Almshouse,	162.25	
Dahl, James,	66.35	
Denison Bros.,	2,555.98	
Howland, J. M.,	68.51	
Jennings, L. T.,	845.75	
Lawrence, Joseph,	59.85	
Mosher, Isaiah T., agent,	513.76	
Potter, Mrs. S. C.,	7.91	
Smith & Wordell,	9.00	
Snow, Loum,	340.46	
Town of Fairhaven,	70.05	
Tripp, T. B.,	220.28	$5,703.32

REPAIRS OF ROLLER AND CRUSHERS:

Acushnet Iron Co.,	$10.89	
Ashley, J. B., Jr.,	61.56	
Babbitt, Wood & Co.,	740.25	
Bowker & Tripp,	256.29	
Dodge, Haley & Co.,	34.25	
Farrell Foundry & Machine Co.,	467.25	
Gifford, T. J. & Co.,	18.80	
Hartford Boiler Inspection Co.,	150.00	
Hawes, W. T.,	23.68	
Kirby, C. L.,	4.00	
N. B. Boiler & Machine Co.,	189.27	
Oastler, W. C.,	133.00	
Shea, Michael,	.50	
Sturtevant & Sherman,	4.54	
Waite, Williams & Co.,	46.83	
Wamsutta Mills,	32.97	
Wellington, A. J.,	751.52	
White, Phineas,	9.30	2,934.90

SUPPLIES AND MATERIAL:

Abbott Downing Co.,	$15.50	
Allen, Clark,	231.07	
Ames Plow Co.,	499.18	
Ashley, H. T.,	168.07	
Ashley, T. J.,	65.38	
Babbitt, Wood & Co.,	59.88	

Bates, J. W.,	$142.26
Beetle, Rodolphus,	224.30
Belcher, W. M. & Co.,	5.60
Bertram, Douglass,	2.88
Bertram, John,	3.57
Bliss & Nye,	2.50
Boomer, Thomas,	37.75
Borden, G. B.,	792.62
Borden, H. T.,	18.25
Bosworth, W. E.,	13.41
Briggs & Lawrence,	3.00
Brownell, H. M.,	60.25
Brownell & Co.,	85.25
Brownell & Murkland,	241.90
Brownson, L. B.,	21.57
Burke, James,	5.28
Burns, James,	105.55
Cardoza, M. E.,	12.66
Casey, E. H.,	104.85
Central Union Association,	4.50
Clifford & Allen,	71.12
Cobb, G. A.,	56.27
Coggeshall, W. P.,	19.30
Connell, John,	88.19
Corson, T. S.,	303.33
Cory, F. A.,	27.02
Cory, George G.,	20.77
Crapo, G. G.,	170.48
Crapo, Peter,	1,409.03
Crapo, W. H.,	6.00
Curtis, M. E.,	16.93
Davis, Mark,	233.57
Denham, E. F. B.,	1.12
DeWolf & Vincent,	50.27
Dews, Edwin,	14.90
Dodge, Haley & Co.,	25.92
Donnault, Moses,	134.61
Douglass, J. O.,	16.14
Driscol, Church & Hall,	134.08
Duddy, James,	76.06
Duff, David & Son,	1,220.80
Dunn, John,	114.56
Dwyer, George,	5.25
Eggers, Selmar,	765.99
Enos, Frank,	4.50

Equi, Louis,	$26.40
Fairbanks, Brown & Co.,	11.50
Ferguson, David,	36.42
Fifth Street Sewer,	1.95
Flury, Lawrence,	63.51
Folger, D. B.,	5.08
Fredette, John,	12.12
Fredette, Louis,	8.00
Frost & Adams,	55.50
Galpin, C. D.,	110.91
Gammons, C. H.,	52.17
Gammons, E. H.,	2.44
Gammons, F. M.,	97.53
Gardner & Southwick,	9.77
General Sewer Account,	291.72
Gifford, C. T. W.,	103.35
Gifford, T. J. & Co.,	72.64
Gill, Severine,	107.72
Goodrau, Dolly,	10.87
Gray, Charles A.,	68.00
Greene & Wood,	67.32
Greene, M. S.,	1.50
Grew, David, Jr.,	217.22
Grinnell, Edmund,	4.64
Handy, Jonathan,	1,079.69
Hart & Akin,	10.54
Hart, T. M. & Co.,	29.08
Hathaway, J. W.,	166.76
Hathaway, Paul E.,	198.51
Hathaway, Paul S.,	63.86
Hawes, Sylvanus,	1.37
Hayes, N. P.,	131.84
Hill, Thompson,	31.07
Homer, G. S.,	201.62
Howland, Ezra,	9.16
Hutchinson, H. S. & Co.,	29.68
Jenkins, B. S.,	14.59
Jenks, A. F.,	216.08
Kenney, E. D.,	21.74
King, H. R.,	106.35
King, Levi,	22.79
King, R. B.,	199.15
Kirby, Geo. Jr. & Co.,	18.30
Lawrence, J. H.,	9.00
Lepere, Levi,	23.41

Lepere, Peter,	$7.54
Lowe, S. C.,	1.90
Luce, Thomas,	37.49
Manchester, F. W.,	49.33
Manchester, I. H.,	74.28
Manchester, J. W.,	692.93
McCrohan, Timothy,	23.42
McCullough, John,	15.00
Morse, Edw. W.,	29.59
Moriarty Bros.,	.25
Murphy, T. J.,	3.43
New Bedford Cordage Co.,	54.73
New Bedford Gas Light Co.,	1,156.01
Paine, S. S. & Bro.,	1,020.89
Paisler, C. S.,	12,981.50
Penney, E. F.,	16.56
Perkins & Chase,	1,142.14
Pierce, J. Henry,	78.30
Pierce & Sowle,	500.95
Poole, A. F.,	28.04
Poole, P. S.,	137.90
Poole, R. D.,	160.72
Potter, G. A.,	637.34
Potter, Mrs. S. C.,	100.16
Quinn, James,	30.15
Quirk, Patrick,	.52
Reed, Eli W.,	245.51
Richards, G. D.,	42.15
Rogers, Abiathar,	25.28
Rogers, E. D.,	90.00
Rogers, G. W.,	31.26
Rogers, J. H.,	109.25
Russell, Allen,	6.17
Russell, Pardon,	33.81
Russell, Pardon, Jr.,	52.08
Ryder, David,	18.40
Sawyer, S. P.,	70.23
Searles, Mortimer,	2.50
Shaw, G. E.,	7.50
Sheehan, Timothy,	10.67
Sisson, Mrs. H. A.,	35.29
Sisson, O. A.,	49.11
Spencer, F. J.,	53.49
Spooner, J. W.,	138.89
St. Clair, Bruno,	7.93

Stevens, Lama,	$2.95	
Stowell, B. I.,	639.83	
Strong, Albert,	100.94	
Sullings, Kingman & Co.,	36.60	
Sullivan, J. B.,	176.94	
Sutton, W. J.,	116.83	
Swan, W. D. & Son,	17.28	
Sweeney, Daniel,	112.75	
Sylvia, J. P.,	6.25	
Sylvia, M. L.,	21.77	
Taber, Charles,	10.27	
Taber, G. B.,	36.12	
Tillinghast, W. A.,	1,007.99	
Tripp, W. H.,	70.10	
Upham, W. O. T.,	145.95	
Wainer, Lucy J.,	67.43	
Wakefield Rattan Co.,	144.75	
Wallace, Mrs.,	161.53	
Warren, David,	3.05	
Weaver, Thomas,	29.64	
Weeks, H. T.,	68.82	
West, Simeon,	18.84	
Whiteside, John,	1.88	
Wilbur, J. T.,	393.32	
Wilbur, S. B.,	11.14	
Wilson, George,	.39	
Winslow, C. H.,	111.32	
Wood, Brightman & Co.,	3.02	
Woodhouse, William,	6.03	$35,471.43

MISCELLANEOUS:

Anthony, E. & Sons,	$6.00	
Ashley, C. M.,	63.90	
Ashley, I. L.,	25.00	
Bancroft, J. V.,	19.00	
Bartlett, A. H.,	35.00	
Beeden, B. M.,	11.38	
Bertram, John,	402.77	
Borden, C. F.,	530.43	
Brightman, C. O.,	150.98	
Brownell, G. A.,	97.62	
Brownson, L. B.,	7.40	
Cedar Grove Street Sewer,	43.75	
Central Union Association,	1.25	
Coggeshall, Maxfield & Co.,	100.15	

Cummings, C. S. & B.,	$13.37
Davis, M. M.,	500.00
Derby & Kilmer Desk Co.,	71.80
Doren, William,	160.40
Drake, A. B.,	442.34
Durfee, R. T.,	25.00
Edison Elec. Ill. Co.,	7.56
Fox, G. S., agent,	102.00
Fredette, J.,	36.00
Haskell & Tripp,	2.30
Hillman, Jethro,	292.83
Jenkins, B. S.,	3.55
Jenney, P. P. & Son,	38.46
Kirby & Hicks,	24.50
Lawrence, C. E.,	4.38
Lowney, Timothy, 1st,	49.74
McCabe, John,	55.16
Mellish, Byfield & Co.,	120.00
Mercury Pub. Co.,	6.00
Moore & Diman,	.60
Moriarty Bros.,	4.98
Munroe & Sears,	9.80
Negus, J. P.,	5.00
N. B. Boiler & Machine Co.,	2.25
N. B. Water Works,	37.66
Norton, Thomas,	50.70
Nickerson, W. J.,	35.00
Nye, George H.,	3.20
Old Colony R. R. Co.,	78.76
Old Colony S. B. Co.,	.25
Odd Fellows Bldg. Association,	416.70
Peckham, J. H.,	5.74
Perkins & Chase,	3,393.83
Perry, Frank,	1.50
Perry, S. F. & Son,	7.00
Piper, D. M.,	.60
Potter, G. A.,	20.00
Purrington & Brown,	6.91
Richards, E. C.,	3.25
Russell, Pardon, Jr.,	40.25
Sawin, A. K. P.,	17.00
Sawyer, J. A.,	9.22
Scollay & Rich,	5.50
Sheehy, James,	16.98
Sherman, C. R. & Son,	12.90

Sherman, Ruth S.,	$1.35	
Slocum, F. R.,	6.75	
Smith Bros.,	1.00	
So. Mass. Telephone Co.,	130.99	
Spooner, John,	7.60	
Sullivan, J. B.,	6.50	
Sweet, Job,	11.00	
Terry, F. C.,	8.19	
Turner Electric Co.,	15.00	
Union Street Railway Co.,	80.00	
Vermyne, Dr. J. J. B.,	14.00	
Wade, J. B.,	1.12	
White, Phineas,	1.50	
Whitney, Dr. E. M.,	8.00	
Wing, C. F.,	145.13	
Wordell, S. S.,	20.00	$8,093.73
		$129,850.53

Cr.

By appropriation,	$83,000.00	
Appropriation, special,	17,000.00	$100,000.00
Cash receipts as per Treasurer's report,		25,707.74
		$125,707.74
Transfers to balance,		4,142.79
		$129,850.53

TRUST FUNDS.

Cr.

By Sylvia Ann Howland Free Public Library Fund:	
One-half of the bequest of Sylvia Ann Howland for the support of Liberal Education and Free Public Library,	$50,000.00
By Sylvia Ann Howland Educational Fund:	
One-half of the bequest of Sylvia Ann Howland for the support of Liberal Education and the Free Public Library,	50,000.00
By George Howland, Jr., Fund:	
Donation to Free Public Library,	1,600.00
By Charles W. Morgan Fund:	
Bequest to Free Public Library,	1,000.00
By Oliver Crocker Fund:	
Bequest to Free Public Library,	1,000.00
By James B. Congdon Fund:	
Donation to Free Public Library,	500.00
By Jonathan Bourne Prize Fund:	
Donation to School Committee,	1,000.00
By George O. Crocker Fund:	
Bequest to Free Public Library,	10,000.00
By Cemetery Fund Deposited in the Treasury by:	
Allen, Charles F.,	$25.00
Allen, Gideon,	100.00
Backman, George W.,	50.00
Bamford, S. & J. H.,	75.00
Barker, John P.,	50.00
Bartlett, George F.,	100.00
Bartlett, George F., executor,	100.00
Bartlett, Susan E.,	100.00
Bierstadt, Edward,	100.00
Blackmer, William, Estate of,	50.00
Blakely, Richard,	100.00
Blossom, E. R.,	15.00
Booth, C. F.,	75.00
Bourne, Elisha,	100.00

Bourne, Jonathan,	$100.00
Brett, Eliza A.,	75.00
Brightman, L. F.,	100.00
Brownell, Frederick A.,	50.00
Buchanan, Thomas,	100.00
Canfield, William,	100.00
Cave, James,	100.00
Churchill, Hiram,	50.00
Clark, B.,	60.00
Clark, Joseph,	100.00
Cole, Hannah A.,	50.00
Colesworthy, Emeline,	15.00
Congdon, S. & E.,	100.00
Cook, Julia A.,	30.00
Cornell, William, Jr.,	25.00
Cory, Seabury,	100.00
Crapo, Sarah A., "Rural,"	50.00
Crapo, Sarah A., "Oak Grove,"	50.00
Cross, Sylvia G.,	150.00
Davis, Aaron,	25.00
Davis, Nicholas,	50.00
Delano, Abraham,	100.00
Dennison, T. R.,	50.00
Devoll, Joseph,	50.00
DeWolf, William H.,	75.00
Dexter, C. E.,	100.00
Dexter, Isabella,	50.00
Drew, Francis,	50.00
Durfee, James,	100.00
Durfee, Thomas,	50.00
Dyer, Asa,	50.00
Dyer, Emma W.,	100.00
Eaton, Jacob,	50.00
Ferguson, Jireh L.,	50.00
Gardner, Edmund,	100.00
Gellett, Harriet A.,	100.00
Gibbs, Robert,	80.00
Gifford, Abraham R.,	100.00
Gifford, Elijah,	100.00
Gilman, Edward V.,	50.00
Gilman Frances T.,	50.00
Gordon, Helen M.,	50.00
Gordon, Mrs. William, Jr.,	50.00
Greene, L. P.,	100.00
Greene, David R ,	100.00

Grinnell, Frederick,	$100.00
Grinnell, Mary B.,	100.00
Hafford, Benjamin,	75.00
Hammond, Caleb,	65.00
Hardwick, Mary H.,	50.00
Harris, William, Trustee of will of,	100.00
Hart, Amelia,	75.00
Hatch, Albert D.,	25.00
Heath, William H., Jr.,	100.00
Hill, Phebe,	50.00
Hitch, Charles, Estate of,	200.00
Howe, Moses G.,	125.00
Howland, Hester A.,	100.00
Howland, Jonathan,	150.00
Howland, Jonathan,	40.00
Howland, Susan,	100.00
Hunt, John,	100.00
Hunt, Mary H.,	100.00
Ingals, Seth H. and William,	100.00
Jenifer, John H.,	150.00
Jenney, Caleb T.,	100.00
Jenney, Isaiah E.,	50.00
Jenney, Leonard,	100.00
Johnson, E. R., Estate of,	300.00
Jones, Samuel,	100.00
Kelley, Ezra,	100.00
Knights, William,	100.00
Knowles, John P.,	100.00
Knowles, Josiah N.,	100.00
Knowles, Thomas,	100.00
Kollock Lemuel,	100.00
Lee, George,	100.00
Livesley, Isaac, Jr.,	100.00
Lockwood, Thomas S.,	100.00
Macomber, Henry B.,	50.00
Maxim, William,	50.00
Matthews, James,	50.00
McIvor, James, and Malvina Matthews,	100.00
Mellis, John,	50.00
Menage, Henry G.,	50.00
McKenzie, Alexander,	60.00
Mills, James,	50.00
Moore, Ann M.,	25.00
Murdock, Ann E.,	44.93
Nelson, Mary A.,	150.00

Nicholson, John B.,	$50.00
Oliver, H. G.,	75.00
Owen, Elizabeth,	75.00
Peirce, Amy A. S.,	50.00
Peirce, Bradford S.,	100.00
Peirce, David R.,	50.00
Peirce, Lloyd N.,	100.00
Peirce, Otis H.,	100.00
Perkins, Sampson,	150.00
Pierce, Andrew G.,	100.00
Price, Keziah R., et al.,	100.00
Purrington, N. S.,	75.00
Records, Ellery,	50.00
Richmond, Joshua,	100.00
Robeson, Emily P.,	100.00
Rodman, Benjamin,	100.00
Rose, Mary A.,	50.00
Russell, Gilbert,	100.00
Russell, William T.,	100.00
Russell, Wing,	50.00
Seabury, Cornelius,	100.00
Seabury, Humphrey W.,	285.00
Sherman, Lucy T.,	100.00
Sherman, Wing, Estate of,	100.00
Shockley, Sarah D. H.,	150.00
Simmons, Sarah E.,	50.00
Sisson, Job, Jr.,	50.00
Sisson, Phebe B.,	75.00
Smith, Shubael,	50.00
Snell, Thomas,	100.00
Snow, Loum,	100.00
Soule, William T., et al.,	100.00
Spencer, C. L.,	100.00
Spooner, Paul, for,	100.00
Staples, Calvin,	100.00
Star in the East Lodge and Adoniram Royal Arch Chapter, F. & A. M.,	50.00
Stetson, Nathaniel,	50.00
Stranberg, Caroline,	50.00
Swain, Oliver,	50.00
Sweet, Betsey B.,	25.00
Swift, Jireh, and wife,	50.00
Swift, Jireh, Jr.,	100.00
Taber, Henry,	100.00
Taber, Lucy B.,	100.00

Taber, Marcus W.,	$100.00	
Taylor, Mary B.,	25.00	
Thomas, Henry F., Estate of,	150.00	
Tobey, Franklin,	70.00	
Tompkins, Eliza,	50.00	
Tripp, Sarah A.,	100.00	
Waite, Benjamin H.,	200.00	
Wall, William Allen,	100.00	
Ward, S. J.,	100.00	
Webb, Otis,	200.00	
West, B. H.,	50.00	
Wheaton, Hiram,	100.00	
Wilbur, Mary A.,	50.00	
Wilcox, Joseph,	150.00	
Wilkinson, T. P.,	50.00	
Williams, Lloyd, and Jos. Antone,	100.00	
Williams, Richard,	100.00	
Wilson, George,	100.00	
Wood, Borden,	50.00	
Wordell, Brayton B.,	50.00	$14,114.93
		$129,214.93

BONDS OF THE CITY OF NEW BEDFORD.

TITLES, RATES, AMOUNTS DUE ANNUALLY, AND TOTALS.

	Sewer Bonds, 4s.	Old Bonds, 5s.	Water Bonds, 6s.	Water Bonds, 7s.	Bridge, etc., 6s.	City Impvt. Bonds, 6s.	Totals.
1891,	$10,000		$20,000	$10,000		$10,000 R.	$50,000
1892,			20,000	10,000		10,000 C.	40,000
1893,			20,000			5,000 R. 8,000 C.	33,000
		Water 4s.			City Imp.		
1894,		$100,000	20,000		3½s.	10,000 C.	130,000
1895,			20,000		$80,000	10,000 C.	110,000
1896,			20,000	City Impt.	25,000	10,000 C.	55,000
1897,			20,000	4s.	35,000	10,000 R.	65,000
1898,			20,000	15,000		10,000 C.	45,000
1899,		Water 5s.	20,000	62,000	Water 7s.	10,000 C.	92,000
1900,		20,000		48,000	10,000	10,000 R.	88,000
1901,		20,000			10,000	10,000 R.	40,000
1902,		20,000			10,000	10,000 R.	40,000
1903,		20,000			10,000	5,000 C. 5,000 R.	40,000
1904,		20,000			10,000	10,000 R.	40,000
1905,		Sewer 3½s.	20,000		10,000	10,000 R.	40,000
1906,		60,000	20,000		10,000	10,000 R.	100,000
1907,		15,000	20,000		10,000	10,000 R.	55,000
1908,	35,000		20,000		10,000	10,000 R.	75,000
1909,	43,000		20,000		10,000	5,000 C. 5,000 R.	83,000
1910,	25,000	Water 4s.				30,000 C.	55,000
1918,		20,000					20,000
		Total,					$1,296,000

Amount of Water Bonds, 7s,		$120,000	
" 5s,		100,000	
" 6s,		280,000	
" 4s,		120,000	
Sewer Bonds, 4s,		113,000	
Sewer Bonds, 3½s,		75,000	
City Improvement Bonds, 6s,		223,000	
" " 3½s,		140,000	
" " 4s,		125,000	$1,296,000

INTEREST AS PAYABLE YEARLY.

			Totals.
1891.	On $120,000 Water Bonds, at 7 per cent.,	$8,400	
	100,000 " " 5 "	5,000	
	280,000 " " 6 "	16,800	
	120,000 " " 4 "	4,800	
	223,000 City Improvement Bonds, at 6 per cent.,	13,380	
	140,000 City Improvement Bonds, at 3½ per cent.,	4,900	
	113,000 Sewer Bonds, at 4 per cent.,	4,520	
	75,000 Sewer Bonds, at 3½ "	2,625	
	125,000 City Improvement Bonds, 4 per cent.,	5,000	$65,425
1892.	On $110,000 Water Bonds, at 7 per cent.,	$7,700	
	100,000 " " 5 "	5,000	
	260,000 " " 6 "	15,600	
	120,000 " " 4 "	4,800	
	213,000 City Improvement Bonds, at 6 per cent.,	12,780	
	140,000 City Improvement Bonds, at 3½ per cent.,	4,900	
	103,000 Sewer Bonds, at 4 per cent.,	4,120	
	75,000 Sewer Bonds, at 3½ "	2,625	
	125,000 City Improvement Bonds, 4 per cent.,	5,000	$62,525
1893.	On $100,000 Water Bonds, at 7 per cent.,	$7,000	
	100,000 " " 5 "	5,000	
	240,000 " " 6 "	14,400	
	120,000 " " 4 "	4,800	
	203,000 City Improvement Bonds, at 6 per cent.,	12,180	
	140,000 City Improvement Bonds, at 3½ per cent.,	4,900	
	103,000 Sewer Bonds, at 4 per cent.,	4,120	
	75,000 Sewer Bonds, at 3½ "	2,625	
	125,000 City Improvement Bonds, 4 per cent.,	5,000	$60,025
1894.	On $100,000 Water Bonds, at 7 per cent.,	$7,000	
	100,000 " " 5 "	5,000	
	220,000 " " 6 "	13,200	
	120,000 " " 4 "	4,800	
	190,000 City Improvement Bonds, at 6 per cent.,	11,400	
	140,000 City Improvement Bonds, at 3½ per cent.,	4,900	
	103,000 Sewer Bonds, at 4 per cent.,	4,120	
	75,000 " " 3½ "	2,625	
	125,000 City Improvement Bonds, at 4 per cent.,	5,000	$58,045

THE FOLLOWING TABLE EXHIBITS THE TOTAL AMOUNT OF THE BONDED DEBT OF THE CITY; THE AMOUNT OF BONDS PAYABLE EACH YEAR; THE AMOUNT DUE EACH YEAR FOR INTEREST; AND THE AGGREGATE OF BOTH PRINCIPAL AND INTEREST TO BE PAID IN LIQUIDATION.

Years.	Bonds.	Interest.	Amount.
1891,	$50,000	$65,425	$115,425
1892,	40,000	62,525	102,525
1893,	33,000	60,025	93,025
1894,	130,000	58,045	188,045
1895,	110,000	52,245	162,245
1896,	55,000	47,645	102,645
1897,	65,000	44,970	109,970
1898,	45,000	41,945	86,945
1899,	92,000	39,545	131,545
1900,	88,000	35,265	123,265
1901,	40,000	31,045	71,045
1902,	40,000	28,745	68,745
1903,	40,000	26,445	66,445
1904,	40,000	24,145	64,145
1905,	40,000	21,845	61,845
1906,	100,000	19,345	119,345
1907,	55,000	14,745	69,745
1908,	75,000	11,720	86,720
1909,	83,000	7,820	90,820
1910,	55,000	3,600	58,600
1911,		800	800
1912,		800	800
1913,		800	800
1914,		800	800
1915,		800	800
1916,		800	800
1917,		800	800
1918,	20,000	400	20,400
	$1,296,000	$703,090	$1,999,090

BONDS PAYABLE IN 1891:

Water Bonds, 7s,	$10,000	
Water Bonds, 6s,	20,000	
Sewer Bonds, 4s,	10,000	
City Improvement Bonds, 6s,	10,000	$50,000

INTEREST PAYABLE IN 1891:

On $620,000 Water Bonds,	$35,000	
223,000 City Improvement Bonds,	13,380	
140,000 City Improvement Bonds, 3½s,	4,900	
188,000 Sewer Bonds,	7,145	
125,000 City Improvement Bonds, 4s,	5,000	65,425
Trust Funds ($105,100 at 6 per cent.),	$6,306	
($10,000 at 4 per cent.),	400	6,706
Total,		$122,131

THE FOLLOWING TABLE SHOWS THE AMOUNT OF TAXES LEVIED IN THIS CITY SINCE 1870, AND THE RATE PER THOUSAND, FOR STATE, COUNTY, AND CITY PURPOSES; ALSO THE NUMBER OF POLLS.

Year.	Valuation of Real Estate.	Valuation of Personal Property.	State Tax.	County Tax.	City Tax.	Overlay.	No. of Polls.	Rate of Tax.
1871,	$9,115,600	$13,844,651.67	$49,425	$22,705.48	$293,300	$12,599.52	5,333	$16.00
1872,	10,050,800	13,742,898.00	32,280	18,943.65	356,000	13,181.96	5,577	17.20
1873,	11,125,700	14,114,364.20	36,315	23,679.57	349,000	11,454.46	5,780	16.20
1874,	11,665,400	13,846,904.95	32,280	27,874.24	354,000	11,005.10	5,930	16.20
1875,	11,946,600	14,428,674.00	32,280	28,415.48	383,000	17,136.07	6,226	17.00
1876,	12,411,200	14,339,002.00	26,244	23,859.86	387,000	20,251.49	6,651	16.60
1877,	12,609,200	13,524,097.00	21,870	23,859.86	436,200	17,273.46	6,562	18.60
1878,	12,808,700	13,137,011.20	14,580	25,249.76	371,500	17,259.61	6,729	16.00
1879,	12,898,300	12,874,418.00	7,290	25,666.72	386,000	17,497.36	6,891	16.40
1880,	13,138,400	13,137,519.00	21,870	28,377.03	361,250	15,080.89	7,028	15.70
1881,	13,505,400	13,699,922.00	21,870	26,871.30	437,300	16,084.49	7,025	18.00
1882,	14,138,300	13,974,587.00	29,160	25,689.88	434,200	17,605.64	7,340	17.50
1883,	15,109,300	15,180,305.00	25,770	29,468.95	452,400	16,614.41	7,694	16.80
1884,	15,635,900	15,718,182.00	34,360	26,668.72	462,700	13,031.04	8,141	16.60
1885,	16,293,800	15,104,090.00	25,770	27,735.50	457,950	17,028.11	8,349	16.30
1886,	16,778,900	15,416,695.50	27,015	33,883.77	456,300	15,328.18	8,699	16.00
1887,	17,372,600	15,309,658.00	40,522½	38,485.28	489,700	18,075.50	9,056	17.40
1888,	18,023,700	15,430,647.00	40,522½	41,274.10	486,411	19,364.29	9,424	17.00
1889,	18,928,800	15,718,866.00	34,700	51,476.17	508,600	17,642.91	9,972	17.10
1890,	20,041,700	16,829,154.00	30,362½	50,632.30	519,300	22,120.12	10,710	16.30

Average tax rate for 20 years, $16.74.

City of New Bedford,

In Committee, March 18, 1891.

The sub-committee appointed by the Committee on Finance to appraise the city property and prepare a schedule of the same, have attended to that duty, and submit the following report, viz.:

Poor Department:

Almshouse and out-buildings,	$26,000	
Old almshouse and out-buildings,	1,500	
Small pox hospital,	1,000	
Farm, containing 70 acres,	12,500	
Furniture in almshouse,	2,700	
Furniture in hospital,	75	
Farming and mechanics' tools,	450	
Stone machine,	50	
Tedders, horse-rake, manure-spreader, etc.,	400	
Carts, gears, and lumber wagons, etc.,	1,300	
Ambulance,	300	
Horses, oxen, cows, hogs, and poultry,	1,800	
Hay, grain, vegetables, pork, etc.,	2,425	
Wood and coal shed, corner North Second and North streets,	3,000	
Wood in shed,	500	$54,000

Highways and Streets Department:

Sundries, as per Superintendent's report,		32,100

Sewer Department:

Sundries, as per Superintendent's report,		6,900

Street Light Department:

Gas and naphtha lamps, posts, and lanterns,	$7,150	
Two houses for oil, etc.,	300	
Tools for Petroleum Inspector,	50	7,500

Public Buildings, Land, etc.:

City Hall and lot,	$70,000	
City library building and lot,	75,000	
City common,	50,000	
Rural cemetery,	20,000	
Oak Grove cemetery,	15,000	
Pine Grove cemetery,	800	
Central police station and lot,	18,000	
Willis street police station and lot,	2,500	

West police station,	$300	
South police station,	250	
Volumes in the City Library,	49,000	
Scales at city stables,	300	
Land on Clark's point,	200	
Powder magazine,	450	
South pound lot,	200	
Ward house and lot, Fifth ward,	1,400	
Ward house and lot, Sixth ward,	1,600	
Standard weights and measures,	300	
Surveying instruments,	300	
Two brass field pieces, muskets, etc.,	1,300	
Police station and lot corner Bowditch and Weld streets and lot adjoining on north,	17,500	
New city stable and lot,	40,000	
Lot on South Second street, Police Signals,	1,700	$366,100

SCHOOL DEPARTMENT:

Acushnet school house and lot,	$7,500	
Acushnet avenue " "	25,000	
Arnold street " "	900	
Cannonville " "	1,500	
Cedar street " "	6,500	
Cedar Grove street " "	25,000	
Clark's point " "	800	
Dartmouth street " "	15,000	
Fifth street " "	50,000	
Fourth street " "	7,000	
Grove " "	2,500	
High " "	127,000	
High street " "	2,000	
Kempton street " "	5,000	
Linden street " "	2,500	
Maxfield street " "	20,000	
Merrimac street " "	18,000	
Middle street " "	30,000	
North (Tobey road) " "	500	
Parker street " "	50,000	
Plainville " "	1,000	
Rockdale " "	1,200	
William street " "	5,000	
Apparatus in school houses,	12,000	
Truant school house,	1,700	
Thompson street school house and lot,	36,000	
Harrington school house and lot,	53,000	
Division street school house and lot,	23,000	529,600

FIRE DEPARTMENT:

Engine house and lot, Acushnet,	$1,200	
" " Hillman street,	12,000	
" " Purchase street,	12,000	
" " Purchase street,	12,000	
" " Sixth street,	13,000	
" " Fourth street,	13,000	
" " Durfee street,	15,000	
Steam fire engine Onward, No. 1,	2,500	
" " Progress, No. 2,	3,600	
" " Excelsior, No. 3,	500	
" " C. Howland, No. 4,	3,600	
" " Z. Hillman, No. 5,	3,000	
" " Fred. Macy, No. 6,	3,600	
" " No. 7,	3,600	
" " Old No. 2,	2,500	
Eight hose carriages,	5,500	
Hand engine,	200	
Hayes truck,	3,000	
Hook and ladder carriage and ladders,	1,800	
Three sleigh reels,	300	
Hose,	9,000	
Twenty-seven horses and harnesses,	7,000	
Eight wagons,	1,700	
Fire alarm telegraph, including bells, strikers, etc.,	15,000	
Sundries,	3,000	$147,600
NEW BEDFORD WATER WORKS,		1,200,000
		$2,343,800

RECAPITULATION.

Poor Department,	$54,000	
Highways and Streets Department,	32,100	
Sewer Department,	6,900	
Street Light Department,	7,500	
Public buildings, land, etc.,	366,100	
School Department,	529,600	
Fire Department,	147,600	
New Bedford Water Works,	1,200,000	$2,343,800

Respectfully submitted.

JOSEPH DAWSON,
HENRY L. KING,
STEPHEN B. WILBUR,
} Committee.

AUDITOR'S TRIAL BALANCE, JAN. 5, 1891.

Dr.

N. B. Water Works, as Public Property,	$1,200,000.00	
Public Property (other than Water Works),	1,090,600.00	
Sinking Fund Commissioners,	113,316.79	
Appropriations, General, 1890,	27,913.12	
" " 1889,	25,165.77	
" " 1888,	7,096.92	
" Special, 1890,	148,630.81	
Com. of Mass., Chapter 279,	3,948.90	
" " 301,	4,970.55	
Court Judgments,	1,519.33	
Public Debt,	6,255.25	
Real Estate Tax Account,	362.75	$2,629,780.19
City Treasurer, balance of cash,		26,078.73
		$2,655,858.92

Cr.

Trust Funds,	$115,100.00	
Bonds,	1,296,000.00	
Balance of Public Property,	1,007,916.79	
Cadwell, William H., Huntingdon, Pa.,	2,847.26	
Cemeteries,	415.09	
Cemetery Funds,	14,114.93	
Division Street School House and Lot,	17,858.84	
Engine House No. 5 Alterations,	3,500.00	
Free Public Library, Trustees,	5,758.94	
" Dog Fund,	630.90	
N. B. School Committee, Howland Fund,	1,894.39	
" Jona. Bourne Prize Fund,	30.00	
N. B. Water Works,	41,713.69	
Police Telegraph Signal System,	14,231.90	
Public Schools, Dog Fund,	2,639.24	
Sewers, Bowditch Street, No. 3,	1,000.00	
" County Street, No. 4,	300.00	
" Grape Street Extension,	2,939.10	
" Smith and Walden Streets,	167.85	
" Sycamore Street, No. 2,	1,800.00	
Temporary Loan,	125,000.00	$2,655,858.92

City of New Bedford,
Auditor's Office, January 5, 1891.
WILLIAM B. TOPHAM, City Auditor.

ANNUAL REPORT

OF THE

COLLECTOR OF TAXES

FOR

THE YEAR 1890.

In Board of Aldermen,
March 12, 1891.

Received and ordered printed in the City Documents and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,
3 mo. 26, 1891.

Concurred.

WM. A. MACKIE,
Clerk.

Statement of the Collector of Taxes.

1890.

City of New Bedford,
Collector's Office,
January 5, 1891.

To the City Council:

Gentlemen, — I herewith respectfully present to you my account as Collector of Taxes, embracing a statement in full of the various transactions in this department for the financial year ending at this date.

COLLECTOR'S STATEMENT FROM 1883 TO 1889 INCLUSIVE.

Financial Year.	Unpaid Jan. 6, 1890.	Paid and Remitted.	Unpaid Jan. 5, 1891.
1883,	$5,696.14	$5,696.14	
1884,	5,980.77	5,980.77	
1885,	6,610.73	6,610.73	
1886,	5,554.84	89.35	$5,465.49
1887,	8,259.81	505.32	7,754.49
1888,	11,656.85	4,195.72	7,461.13
1889,	19,349.91	6,686.98	12,662.93
	$63,109.05	$29,765.01	$33,344.04

COLLECTOR'S STATEMENT.

TAXES OF 1890.

CHARGES.

Amount of tax bills,		$622,396.99
State tax,	$30,362.50	
County tax,	50,632.30	
City tax,	519,300.00	
Overlay,	22,102.19	$622,396.99

PAYMENTS.

State tax,	$30,362.50	
County tax,	50,632.30	
City Treasurer,	491,386.88	
Discount,	30,096.88	
Abatements by Assessors,	675.82	
Balance unpaid,	19,242.61	$622,396.99

The balance of taxes of 1890 unpaid at this date is but $3\frac{9}{100}$ per cent. of the whole assessment.

Our portion of the State tax for 1890 was $30,362.50 and the county tax for the same year, $50,632.30, or a total of $80,994.80. Though $5,181.37 less than in 1889, it added to our tax rate for the year nearly $2.25 per one thousand dollars: about one-eighth of the whole assessment.

The receipts from the Commonwealth of Massachusetts for corporation and other taxes were as follows, viz.:

Corporation tax,	$60,775.43
National bank tax,	3,192.20
Tax on ships in foreign trade,	1,351.21
	$65,318.84

By an order of the City Council passed early in the year, $25,000 of the sum last named was placed to the credit of appropriations, general, of 1890, $10,000 applied to the discount on taxes paid on or before October 15th last, and the balance, $30,318.84, placed at the disposal of the City Treasurer, as shown by his report which follows.

The collections, as usual, have been satisfactory, 95½ per cent. of the taxes of 1890 having been collected under the discount between September 15th and October 15th inclusive.

Respectfully submitted.

JAMES H. HATHAWAY,

Collector of Taxes.

ANNUAL REPORT

OF THE

CITY TREASURER

For the year ending January 5, 1891.

In Board of Aldermen,
April 30, 1891.

Received and ordered printed in the City Documents and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,
4 mo. 30, 1891.

Concurred.

WM. A. MACKIE,
Clerk.

Statement of the City Treasurer,

JANUARY 5, 1891.

City of New Bedford,
Treasurer's Office, January 5, 1891.

To the City Council:

Gentlemen, — I herewith present to you, as required by the ordinances of the city, my account as City Treasurer for the financial year ending at this date.

Very respectfully,
JAMES H. HATHAWAY,
City Treasurer.

PAYMENTS INTO THE TREASURY.

The balance in the treasury at the close of the last financial year and the receipts during the year ending at this date, are set forth in the statements that follow, viz. :

Balance, January 6, 1890,		$25,625.43
RECEIPTS FROM COLLECTOR OF TAXES.		
1883,	$6.00	
1884,	4.00	
1885,	4.00	
1886,	15.60	
1887,	198.04	
1888,	4,119.42	
1889,	6,673.30	
1890,	491,386.88	502,407.24

APPROPRIATIONS, GENERAL, 1887.

Amount received from State Treasurer:		
Part of corporation tax of 1889,		$2,077.41

APPROPRIATIONS, GENERAL, 1890.

Amount received from State Treasurer:		
Part of corporation tax, 1890, estimate of City Council,	$25,000.00	
Part of same for abatement,	10,000.00	35,000.00

APPROPRIATIONS, SPECIAL, 1889.

From Improvement Bonds issued,	$48,000.00	
From Sewer Bonds issued,	25,000.00	73,000.00

WILLIAM H. CADWELL, HUNTINGDON, PA.

Amount received in payment for land sold for non-payment of taxes,	2,847.26

CEMETERIES.

Received from sale of lots, etc.,		
Oak Grove Cemetery,	$1,210.00	
Rural Cemetery,	2,405.00	
George Nelson, amount returned,	5.00	3,620.00

CEMETERY FUNDS.

Amount received from sundry persons for permanent care of lots:	
George F. Bartlett, Rural,	$100.00
George F. Bartlett, Rural,	100.00
S. E. Bartlett, Rural,	100.00
Mrs. E. A. Brett, Oak Grove,	75.00
Jane Broadmeadow, Oak Grove,	100.00
Hannah A. Cole, Oak Grove,	50.00
Seabury Cory, Rural,	100.00
T. R. Dennison, Oak Grove,	50.00
Isabella Dexter, Rural,	50.00
A. R. Gifford, Rural,	100.00
Elijah Gifford, Rural,	100.00
E. V. Gilman, Rural,	50.00
F. L. Gilman, Rural,	50.00
Frederick Grinnell, Oak Grove,	100.00
Mary B. Grinnell, Oak Grove,	100.00
Helen M. Gordon, Rural,	50.00

Mrs. William Gordon, Jr., Rural,	$50.00	
Caleb Hammond, Oak Grove,	65.00	
Mary F. Hardwick, Oak Grove,	50.00	
A. D. Hatch, Rural,	25.00	
W. H. Heath, Jr., Rural,	100.00	
J. H. Jenifer, Rural,	150.00	
I. E. Jenney, Oak Grove,	50.00	
J. N. Knowles, Rural,	100.00	
Thomas Knowles, Rural,	100.00	
Thomas S. Lockwood, Rural,	100.00	
James Matthews, Rural,	50.00	
James McIvor et al., Rural,	100.00	
John B. Nicholson, Oak Grove,	50.00	
Sampson Perkins, Rural,	150.00	
A. G. Peirce, Rural,	100.00	
K. R. Price et al., Oak Grove,	100.00	
Abram Russell, Friends,	100.00	
S. D. H. Shockley, Oak Grove,	150.00	
Jireh Swift, Jr., et al., Rural,	100.00	
Marcus W. Taber, Rural,	100.00	
S. A. Tripp, Rural,	100.00	
William A. Wall, Rural,	100.00	
Otis Webb, Rural,	200.00	
Joseph Wilcox, Rural,	150.00	
T. P. Wilkinson, Rural,	50.00	
Richard Williams, Rural,	100.00	$3,765.00

COMMONWEALTH OF MASSACHUSETTS.

MILITARY AID UNDER CHAPTER 279, LAW OF 1889.

Of State Treasurer, one-half of the disbursements to Jan. 1, 1890,	3,219.75

COMMONWEALTH OF MASSACHUSETTS.

STATE AID UNDER CHAPTER 301, LAW OF 1889.

Of State Treasurer, advances of 1889,	4,354.00

FIRE DEPARTMENT.

Received from sundry sources, as follows:

Howland Mill, use of engine,	$48.00
Merrill's wharf, hose,	5.00
N. B. Gas Light Co., labor,	5.00
G. H. W. Tripp, amount returned,	27.68
Union Street Railway, wire,	8.05
E. B. Whiting & Co., amount returned,	20.34

Cemeteries,	$32.00	
Poor department,	279.04	
Sale of horse,	100.00	$525.11

FREE PUBLIC LIBRARY — TRUSTEES' ACCOUNT.

Income from sundry bequests and gifts:

Sylvia Ann Howland, bequest,	$3,000.00	
George Howland, Jr., gift,	96.00	
Charles W. Morgan, bequest,	60.00	
Oliver Crocker, bequest,	60.00	
James B. Congdon, gift,	30.00	
George O. Crocker, bequest,	400.00	3,646.00

FREE PUBLIC LIBRARY—DOG FUND.

One-half of the receipts from the county of Bristol for dog licenses,	1,268.55

HIGHWAYS AND STREETS.

The receipts from sundry sources were as follows:

John Bertram, labor, &c.,	$57.41
J. A. Brownell, paving, labor, &c.,	44.60
M. Cleary, old harness,	12.00
Clifford & Allen, amount returned,	71.12
Walter Clifford, repair driveway,	37.15
William Cronin, labor, &c.,	16.48
Dartmouth, repairs,	18.71
A. B. Drake, Superintendent, sundry sales,	22.56
A. B. Drake, stock and labor,	61.31
M. Fisher, concreting,	21.88
Hart & Akin, stone and labor,	229.00
Horatio Hathaway, stock and labor,	277.45
H. E. Hicks, stock and labor,	60.00
James Hines, sale of pork,	7.26
D. W. Holmes, stone,	17.52
Howland Mills, labor, Bolton road,	1,065.83
H. M. Knowles, screening,	16.96
Joseph Lougee, repair drain,	24.82
W. B. Macomber, flagging, &c.,	10.60
N. B. Cordage Co., repairs,	65.33
N. B. Manufacturing Co., stock, &c.,	25.92
Patrick O'Leary, concreting,	19.52
C. S. Paisler, pipe, &c.,	270.75
David L. Parker, watering park,	22.50
E. F. Penney, curbing,	75.87

Philadelphia & Reading Coal Co., carting,	$136.80	
William J. Rotch, labor, &c.,	265.17	
Sale of horse,	50.00	
Sale of dirt, stone, trimming trees, &c.,	1,891.54	
A. K. P. Sawin, horse,	115.38	
Orrick Smalley, concrete,	12.73	
Bradford Smith, dirt, &c.,	22.45	
T. M. Stetson, labor, &c.,	277.59	
D. J. Sullivan, labor, &c.,	247.30	
Sundry departments,	17,450.82	
E. V. Sylvia, pork,	16.26	
R. A. Taber, flagging,	16.55	
T. B. Tripp, dressing and sewer,	2,156.17	
J. B. C. Tuell, concreting,	33.69	
Union Street Railway, repairs,	373.30	
Wamsutta Club, flagging, &c.,	78.40	
James Wilson, pork,	11.04	$25,707.74

INCIDENTALS.

Amount in audits, not paid,	$2.40	
E. A. Brett, care of cemetery lots,	5.00	
James Delano, July 4th, returned,	.20	
William Gordon, Jr., care of cemetery lots,	3.00	
Nathan Sears, returned,	3.00	
Sundry parties, care of cemetery lots,	15.00	28.60

NEW BEDFORD AND FAIRHAVEN BRIDGE.

Greene & Wood, returned for lumber,	181.86

NEW BEDFORD SCHOOL COMMITTEE.

Income from trust funds:

Sylvia Ann Howland, bequest,	3,000.00

NEW BEDFORD SCHOOL COMMITTEE—JONATHAN BOURNE PRIZE FUND.

Income from fund to Jan. 1, 1891,	60.00

NEW BEDFORD WATER WORKS.

Received from sundry sources, as follows:

From takers, rates,	$62,998.20	
From services and mains,	4,946.86	
For fines,	12.00	
For meters,	121.65	
For discount on tax,	2.14	
Sale of hay,	91.50	
Sale of wagon,	100.00	68,272.35

POLICE DEPARTMENT.

Received from Third District Court of Bristol, etc., as follows:

John Hernon, amount returned,	$15.00	
Officers' fees,	6,034.30	
Rent of court room,	400.00	
Town of Dartmouth,	58.00	$6,507.30

POOR DEPARTMENT.

The receipts were as follows:

CITIES AND TOWNS.	
Acushnet,	$60.00
Attleboro,	80.50
Boston,	88.10
Bourne,	6.75
Bridgewater,	60.00
Brockton,	45.00
Brookline,	113.85
Canton,	120.00
Chatham,	40.00
Concord,	59.00
Dartmouth,	524.25
Easton,	4.00
Edgartown,	44.00
Fairhaven,	302.86
Fall River,	187.90
Falmouth,	161.75
Freetown,	8.00
Hanson,	29.50
Holyoke,	10.00
Lawrence,	56.00
Ludlow,	106.00
Mattapoisett,	50.00
Middleboro,	115.75
Nantucket,	51.00
Orleans,	67.50
Palmer,	11.25
Pittsfield,	27.39
Plymouth,	105.00
Provincetown,	5.00
Rochester,	72.25
Salem,	87.75
Southwick,	47.00
Taunton,	199.10
Tisbury,	20.00
Waltham,	44.50

Wareham,	$24.00		
Wellfleet,	127.45		
Westport,	143.00		
Whitman,	84.55		
Worcester,	1.85	$3,391.80	
From State, support, burials, &c.,		2,568.37	

Almshouse, city:

Farm produce,	$218.51		
Fire department,	654.10		
Highway department,	162.25		
Henry Jessum, support,	17.00		
W. & H. Negus, support,	100.00		
Military aid, board,	316.35		
Peter J. Peters, board,	24.00		
L. A. Russell, board,	4.92		
E. Sturtevant, burial,	15.00		
J. W. Thompson, board of son,	7.00		
Truant school, support,	1,394.47	2,913.60	

Received for support at hospitals, &c.:

E. P. Allen,	$26.46		
L. LeB. Holmes, guardian,	234.00		
Hugh McHugh, wife,	144.00		
Mary E. Mercer,	50.00		
S. W. Smith, wife,	108.18		
Benj. R. Watson,	212.17		
Isaiah Wood, son,	212.17	986.98	$9,860.75

PUBLIC DEBT.

Accrued interest on bonds sold,	$56.78	
New Bedford Water Works, interest,	5,000.00	5,056.78

PUBLIC SCHOOLS—DOG FUND.

County of Bristol, one-half of the dog licenses,	1,268.56

PUBLIC SCHOOLS—INCIDENTALS.

A. W. Holmes, returned,	12.25

PUBLIC SCHOOLS—PAY OF TEACHERS.

H. S. Gardner, returned,	4.00

REAL ESTATE TAX ACCOUNT.

Ellen M. Brown, tax, 1884,	$12.78	
W. H. Cadwell, tax, 1886,	25.28	
Timothy Calnen, tax, 1886,	46.90	
W. L. Davis, tax, 1888,	80.35	
J. J. Gainsville, tax, 1887,	10.75	
S. B. Sabins, tax, 1887,	31.97	
Adelaide Wood, tax, 1888,	20.00	$228.03

SEWERS — GENERAL ACCOUNT.

Highway department,	$220.10	
Sundry sewers,	3,562.58	3,782.68

SEWERS — CEDAR GROVE STREET.

Highway department,	$43.75	
Sewers — general account,	20.57	64.32

SEWER — FIFTH STREET.

From sundry sewers,	13.36

SEWER — GRAPE STREET.

From sundry sewers,	4.95

SEWER — NORTH FRONT STREET, No. 2.

From general sewer account,	10.00

SEWER — SOUTH FRONT STREET, No. 3.

From general sewer account,	22.55

TEMPORARY LOAN.

Received from notes issued by the authority of the City Council,	550,000.00

UNAPPROPRIATED FUNDS.

The receipts were as follows:

Interest,—Deposits,	$5,756.17		
Premium on bonds,	5,061.50		
Taxes,	814.56	$11,632.23	
Licenses and fees,—Circuses, &c.,	$130.00		
Liquor,	25,649.00		
Milk,	173.00		
Peddlers,	50.00		
Pig,	88.00		
Petroleum, &c.,	1,074.50		
Sealers,	26.15	27,190.65	

Rents,—Armory,	$400.00		
City Hall,	365.00	$765.00	
Cattle Commissioners,	$4.00		
High school, use of gas,	4.00		
Income on school fund,	16.50		
Permits to enter sewers,	745.50		
Sale of furniture,	38.75		
Sarah Macy, fines,	5.00		
School buildings, returned,	10.80		
State Treasurer, corporation taxes,	32,731.32		
Trimming trees,	42.65		
Tuition, non-residents,	981.61	34,580.13	
Amounts received for sewer taxes:			
Acushnet avenue,	$271.04		
Cedar Grove street,	529.20		
Clinton street,	230.73		
County street, Nos. 2 and 3,	1,442.27		
Division street,	308.35		
Gifford street,	572.73		
Hickory and Ward streets,	1,149.78		
James street,	800.46		
Kempton street,	646.17		
Liberty street,	268.12		
Maitland street,	157.90		
Maxfield street,	43.21		
Mill street, Nos. 1 and 2,	537.37		
Rivet street, Nos. 1, 2, and 3,	2,952.39		
Shawmut avenue,	310.45		
Sherman street,	39.23		
South Front street,	432.88		
Union street,	63.28		
Washington street,	770.17		
Weld street,	37.50	11,563.23	$85,731.24
Total receipts, including balance, Jan. 5, 1891,			$1,421,173.07

PAYMENTS.

The payments upon the warrants of the Mayor were as follows:

Board of Health,		$2,119.16
Cemeteries,		8,394.16
City stable and lot,		1,955.10
Com. of Mass., military aid, chapter 279,	$6,327.50	
Com. of Mass., State aid, chap. 301,	4,954.50	
Com. of Mass., military aid, chapter 298,	1,294.00	12,576.00

Court judgments,		$1,519.33
Dartmouth street school house extension,		5,315.37
Division street school house and lot,		17,282.16
Engine house and lot, Durfee street,		5,355.98
Engine house, at Head of the River,		879.46
Fire department,		39,010.94
Fire engine, horses, &c., Durfee street,		7,499.66
Free Public Library,—Dog fund,	$5,873.23	
Incidentals,	811.47	
Trustees,	4,976.49	11,661.19
Highway department,		129,850.53
Incidentals,		28,785.29
Light department,		29,076.35
New Bedford and Fairhaven Bridge,		8,394.89
New Bedford School Committee, prize fund,		60.00
New Bedford School Committee, Howland fund,		4,013.75
New Bedford Water Works,		70,063.23
Parks and squares,		1,656.17
Pleasant street extension,		10,000.00
Police department,		66,082.71
Police telegraph and signal system,		1,918.10
Poor department,		38,880.22
Printing, binding and stationery,		7,178.29
Public debt,—Principal,	$45,000.00	
Interest,	78,513.04	
Interest, trust funds,	6,610.00	
Sinking funds,	27,800.00	157,923.04
Public schools,—Dog fund,	$656.10	
Incidental,	31,299.64	
Teachers,	83,906.26	115,862.00
Repairs of buildings,		8,749.00
Real estate, tax account,		293.20
Repairs of city property,		4,530.06
Salaries,		14,715.00
School house at Head of the River,		3,530.00
Sewers,—General account,	$35,872.11	
Arnold and County streets,	1,479.07	
Bowditch street, No. 2,	2,952.29	
Cedar Grove street,	1,103.64	
County street, No. 3,	104.42	
Fifth street,	2,473.62	
Fourth street,	961.58	
Fruit street,	2,587.44	
Grape street extension,	7,065.85	
Howard street,	484.23	
North Front street,	499.57	

Pearl and Willis streets extension,	$4,311.46	
Pope street, No. 2,	325.74	
Prospect street,	614.38	
Rivet street, No. 4,	142.47	
Smith and Walden streets,	1,032.15	
South Front street, No. 2,	12.96	
South Front street, No. 3,	296.42	
South Second street, No. 3,	243.74	$62,563.14
Temporary loan,		515,000.00
Truant school,		2,400.86
		$1,395,094.34
Balance, cash in treasury, Jan. 5, 1891,		26,078.73
		$1,421,173.07

STATEMENT

OF THE

SINKING FUNDS

FOR THE

Financial Year ending January 5th, 1891.

REPORT OF THE TREASURER OF SINKING FUNDS.

City of New Bedford,

Treasurer's Office,

January 5th, 1891.

To the Commissioners of Sinking Funds of the City of New Bedford:

Gentlemen, — Herewith I have the honor to submit the annual statement of my account as Treasurer for the financial year just closed.

The appropriations by the City Council in 1890 for the sinking funds was $27,800, the amount received from water rates for water debt, $600, — $3,920 in excess of the previous year, namely: $1,920 for $48,000 of Sewer Bonds issued April 1st, 1890, and $2,000 for $25,000 of Improvement Bonds issued at the same date.

At this time the sinking funds are all held by the Citizens National Bank of this city, the bank paying for the use of them $4\frac{25}{100}$ per cent. per annum, the interest being credited monthly, this contract to cease on the first of April next.

Amount of sinking funds, January 1st, 1890, $80,454.75

APPROPRIATIONS BY THE CITY COUNCIL.

For $80,000	Bonds of	April 1,	1885,	$6,500.00
25,000	"	"	1886,	2,300.00
30,000	"	"	"	1,200.00
30,000	"	Oct. 1,	"	1,200.00
15,000	"	April 1,	1887,	600.00
35,000	"	"	"	2,800.00
35,000	"	"	1888,	1,400.00
15,000	"	"	"	1,200.00
43,000	"	"	1889,	1,720.00
62,000	"	"	"	4,960.00
48,000	"	April 1,	1890,	1,920.00
25,000	"	"	"	2,000.00
				$27,800.00

From water rates:		
$20,000 Water Bonds April 1, 1888,	$600.00	$28,400.00
Interest on investment,		4,462.04
Sinking funds, Jan. 1, 1891,		$113,316.79

INVESTMENTS FOR THE YEAR.

Amount on deposit at Citizens National Bank, interest credited monthly,	$108,854.75
Interest to Jan. 1, 1891,	4,462.04
Total deposit at this date,	$113,316.79

AMOUNT OF SINKING FUNDS IN EACH CLASS.

Sinking fund No. 1,	$44,745.89
" " 2,	12,955.83
" " 3,	6,760.51
" " 4,	5,301.94
" " 5,	2,651.00
" " 6,	12,370.10
" " 7,	3,889.03
" " 8,	4,537.19
" " 9,	1,940.92
" " 10,	3,628.25
" " 11,	10,480.93
" " 12,	1,986.22
" " 13,	2,068.98
Total sinking funds, January 1, 1891,	$113,316.79

Respectfully submitted.

JAMES H. HATHAWAY,

Treasurer.

REPORT

OF THE

COMMISSIONERS OF SINKING FUNDS.

NEW BEDFORD, January 20th, 1891.

At a meeting of the Commissioners of Sinking Funds of the city of New Bedford, held this day, it was

Voted, To adopt the foregoing statement of the Treasurer as the Report of the Commissioners of the Sinking Funds of the City of New Bedford, required by the Statutes of Massachusetts to be made annually to the City Council.

WM. A. CHURCH,
WM. H. MATHEWS,
Majority of Commissioners.

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1891 — CITY DOCUMENT No. 9.

ANNUAL REPORT

OF THE

CHIEF OF POLICE

OF THE

CITY OF NEW BEDFORD,

TO THE

CITY COUNCIL,

FOR THE

Year ending December 31, 1890.

NEW BEDFORD:
MERCURY PUBLISHING COMPANY, PRINTERS TO THE CITY.
1891.

In Board of Aldermen,
January 8th, 1891.

Received, ordered printed in the City Documents, and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,
January 8, 1891.

Concurred.

WM. A. MACKIE,
Clerk.

REPORT.

NEW BEDFORD, DECEMBER 31st, 1890.

To His Honor the Mayor and Gentlemen of the City Council:

I have the honor to herewith submit my second annual Report, showing the condition of the department and a synopsis of the work performed.

The force as now organized consists of one chief, two captains, six lieutenants, two inspectors, forty-three patrolmen, four day housekeepers, and one night housekeeper.

Sixteen hundred nine (1609) arrests have been made during the year, classified as follows (on warrants 279):

Assault and battery,	143	Escaped convicts,	2
Assault, felonious,	2	False pretence,	1
Assault, indecent,	1	Idle and disorderly,	6
Assault on an officer,	5	Illegal sale of liquor,	3
Abduction,	1	Illegal sale of liquor to a minor,	1
Adultery,	3	Indecent exposure,	2
Attempt at larceny in building,	1	Intercourse with a female under fourteen,	1
Attempt to kill,	1	Keeping liquor nuisance,	10
Bastardy,	7	Keeping liquor with intent to sell,	4
Breaking and entering and larceny,	11	Keeping noisy and disorderly house,	8
Breaking and entering with intent to commit larceny,	1	Keeping diseased meat for sale,	3
Cruelty to dumb animals,	4	Keeping unlicensed dog,	1
Contempt of court,	6	Larceny,	41
Disturbing the peace,	119	Larceny, felonious,	14
Drunkenness,	1099	Malicious mischief,	4
Disturbing religious meeting,	1		
Embezzlement,	9		

Non-support,	15	Suspicion of larceny,	1
Obstructing an officer,	6	Threatening bodily harm,	2
Obtaining goods under false pretences,	4	Tramps,	4
Obstructing street,	1	Trespass by fowls,	3
Peddling without license,	2	Unlawfully using team,	2
Polygamy,	2	Using profane language,	1
Receiving stolen goods,	1	Vagrants,	5
Selling mortgaged property,	1	Violation City Ordinances,	4
Selling leased property,	1	Violation election law,	1
Selling diseased meat,	2	Violation labor law,	1
Stubborn children,	8	Violation oleomargarine law,	1
		Insane,	26

NATIVITY OF PRISONERS.

United States,	715	Italy,	7
Austria,	2	Norway,	3
Bohemia,	2	Poland,	1
British Provinces,	4	Portugal,	62
Canada,	99	Russia,	1
China,	1	Samoan Islands,	3
Cuba,	2	Scotland,	19
England,	185	Spain,	2
France,	1	Switzerland,	1
Germany,	17	West Indies,	3
Ireland,	479		

Of the persons arrested, 1389 were males, 220 were females; 386 were non-residents; and 85 were minors; 767 were committed to prisons, 26 to insane asylums, 54 appealed from sentence, 22 were found not guilty and discharged, 14 were nolle prossed, 6 were delivered to out-of-town officers, 705 paid fine and costs, and there are 15 cases now pending.

MISCELLANEOUS BUSINESS.

Amount of property reported stolen in the city,	$1,988.01	Cases investigated,	2007
Amount of property reported recovered,	2,498.09	Defective streets and sidewalks,	120
Accidents reported,	4	Defective hydrants reported,	1
Buildings found open and secured,	89	Dangerous dogs reported,	20
		Disturbances suppressed,	98
		Dog notices served,	21

Dogs killed,	64	Lost children found and restored,	75
Fire alarms given,	8	Street obstructions,	1
Fires extinguished without alarms,	5	Stray teams put up,	12
Horses found cast,	10	Sick and injured persons assisted,	12
Intoxicated persons helped home,	13	Water running to waste,	17

LODGERS.

Ten hundred fifty-one (1051) persons have been furnished with lodgings during the year, of whom 1042 were males, and nine were females; 462 were Americans, 589 were foreigners; 1051 were non-residents; 52 were minors.

NATIVITY OF LODGERS.

United States,	462	Norway,	1
British Provinces,	3	Russia,	1
Canada,	26	Scotland,	24
England,	217	Sweden,	13
Germany,	1	Wales,	1
Ireland,	302		

STATION HOUSES.

In view of the coming into use of the police signal system this year, it will be necessary to remove the South police station to Gifford street, or somewhere in that vicinity, as it will be absolutely useless where it now stands, but would be of great use in the new location.

The same station house, as well as the West station on Mill street, will require shingling.

I would renew my recommendation that a radiator be placed in the west end of the Weld street station, as it is now decidedly uncomfortable for the men who are obliged to remain therein during very cold weather.

These, with a few minor repairs, will be, in all probability, the only expenditures required for the various station houses.

The Woman's Lockup is in good condition and carefully kept by Mrs. Bullard, the matron. Additional heating apparatus has been placed therein by the contractors, T. J. Gifford & Co., in accordance with the original agreement, the first plant being insufficient to heat the apartment up to the specified degree with the temperature outside at zero. Mr. Gifford, upon being informed of the failure, cheerfully and promptly remedied the difficulty.

THE FORCE.

There has been no change in the formation of the force. Vacancies have occurred and were filled as follows: Joseph H. Dailey, who had served upon the force faithfully for six years and three months, died April 2, 1890; Henry Stevens, after a long and faithful term of service as patrolman upon the night force, was transferred to night housekeeper, February 1, 1890; Crawford S. Pierce resigned, on account of failing health, April 6, 1890; William J. Clark resigned December 31, 1889; John McGlynn was discharged for drunkenness and neglect of duty, May 27, 1890. These vacancies were filled by the appointment of James A. Ivey, February 1, 1890; John J. McAuliffe, February 1, 1890; Thomas Dahony, April 11, 1890; William E. Roscoe, April 11, 1890; and Henry Arnett, June 14, 1890.

The discipline of the force compares favorably with that of former years. One patrolman has been discharged for drunkenness and neglect of duty; one has been suspended for thirty days without pay for violating Rule 20 of the Police Regulations relating to the use of intoxicating liquors while on duty; and one has been reprimanded for "disobedience of orders." With these exceptions, and a few minor ones, the varied duties of the force have been satisfactorily performed.

INSPECTORS.

The two inspectors have performed their arduous and, at times, disagreeable duties faithfully and well. They have been required to work often day and night in all weathers, and have invariably responded to every call with cheerfulness and alacrity.

MORALE OF THE CITY.

There has been a slight increase in arrests over last year; but the city as a whole has been remarkable for its good order and freedom from what is considered the heavier class of crime. This has been particularly noticeable on the numerous occasions when there were processions and other attractions which called out large numbers of our citizens, at which times no riotous or boisterous proceedings called for police interference. There have been more gatherings of this nature during the past year than in any preceding year in the city's history.

IN GENERAL.

The prosperous growth of the city still continues and there is notable increase in our various manufactories and population. This naturally renders the duties of this department more and more arduous, and, in connection herewith, I am pleased to say that the City Government decided to procure some kind of a police signal system, and later did contract with the Gamewell Fire Alarm Company for a system furnished by them and which the company is now putting in, but which is not far enough advanced toward completion for me to report thereon.

In conclusion, I desire once more to tender my thanks to His Honor the Mayor, to the Committee on Police, to the Hon. H. M. Knowlton, District Attorney, Lemuel

LeB. Holmes, Esq., City Solicitor, His Honor the Judge, and the Clerk of Third District Court, to all of whom I am personally indebted for their kind words, wise counsel, and valuable assistance, and to the officers and members of the Police Department for their general good will and cheerful performance of their duty.

Very respectfully your obedient servant,

DANIEL A. BUTLER,

Chief of Police.

1891 — CITY DOCUMENT No. 10.

SECOND ANNUAL REPORT

OF THE

BOARD OF PUBLIC WORKS

OF THE

CITY OF NEW BEDFORD,

TO THE

CITY COUNCIL,

TOGETHER WITH THE

Superintendent's Report to the Board,

FOR THE YEAR 1890.

NEW BEDFORD:
MERCURY PUBLISHING COMPANY, PRINTERS TO THE CITY.
1891.

REPORT.

City of New Bedford,
Office Board of Public Works,
Odd Fellows Building, Dec. 31st, 1890.

To the City Council of the City of New Bedford:

Gentlemen:—The Board of Public Works herewith submit their second annual Report for the year ending December 31st, 1890.

At the beginning of the year the persons constituting the Board were the same as last year,—Morgan Rotch, Edmund Wood, and David L. Parker.

At a meeting of the Board of Aldermen held in the month of April, Mr. Parker, whose term of office was about to expire, was nominated and confirmed for another term of three years.

On the fifth day of May the Board organized for the ensuing year by the reëlection of Morgan Rotch as chairman of the Board. Daniel B. Leonard, City Clerk, continued, by the provision of the act constituting the Board, to act as its clerk. Albert B. Drake was reëlected Superintendent of Public Works. On the ninth day of October Mr. Parker resigned his position as a member of the Board. We record here an expression of the appreciation of his fellow members for his unremitting attention to the duties of the office and for the uniform good judgment brought byhim to the city's servic e.

Thomas B. Tripp was appointed and confirmed to the position for the unexpired term, and qualified October 9.

The Legislature, on May 28th, 1890, passed an amendment to the act constituting the Board of Public Works, whereby the Mayor and the President of the Common Council would become members of it. At the election held December 2d, 1890, this action of the Legislature was accepted and thereby Hon. Walter Clifford, Mayor, and William A. Tucker, President of the Common Council, became members of this Board.

For convenience the original act as now amended is printed herewith.

AN ACT

TO ESTABLISH A BOARD OF PUBLIC WORKS FOR THE CITY OF NEW BEDFORD.

Be it enacted, etc., as follows:

SECTION 1. A board of public works is hereby established for the city of New Bedford to consist of the mayor of said city, who shall be chairman, the president of the common council, and three other persons to be appointed, as follows, viz.: — In the month of April in the year eighteen hundred and eighty-nine or as soon thereafter as this act shall take effect the mayor of said city shall appoint, subject to confirmation of the board of aldermen of said city, three persons to be members of the board of public works, to hold office, respectively, one, two, and three years from the first day of May in the year eighteen hundred and eighty-nine and until their successors are appointed, confirmed, and qualified; and thereafter in the month of April in each year the mayor shall appoint, subject to confirmation as aforesaid, one member of said board to serve for a term of three years from the first day of May in the year in which he shall be appointed and until his successor is appointed, confirmed, and qualified; but the mayor with the consent of the board of aldermen may at any time remove any appointed member of said board. Whenever any vacancy shall occur in said board by death, resignation, or otherwise, of any appointed member, said vacancy shall be filled by appointment and confirmation in the manner aforesaid of another person who shall hold office for the residue of the unexpired term. Said board shall serve without compensation. The members thereof shall be sworn to the faithful discharge of their duties and a record thereof be made upon their journal. Said oath may be administered by the city clerk or any justice of the peace.

SECT. 2. Annually, on the first Monday of May, said board shall organize by the appointment of such officers, not members thereof, as they may determine. The city clerk shall be clerk of said board and serve without extra compensation and as clerk of said board shall perform all the duties now required of city clerks in relation to the laying out, locating anew, alteration or discontinuance of streets, or of altering or establishing the grade thereof, or of laying, making, and maintaining main drains, common sewers, and sidewalks, or any other matters placed by this act under the control of said board, and shall keep a record of the doings of said board.

SECT. 3. All the duties, powers, and authority in relation to the laying out, locating anew, alteration, or discontinuance of streets or ways, or of altering or establishing the grade thereof; of laying, making, and maintaining main drains, common sewers, and sidewalks and keeping the streets and ways in repair, now by law vested in the city council of the city of New Bedford or either branch thereof, or the mayor and alderman as surveyors of highways, or otherwise, are hereby vested in and shall be exclusively exercised by said board of public works; and all the rights, powers and duties of said city council of the city of New Bedford or either branch thereof, as public officers or otherwise, in relation to the streets, ways, sewers, drains, public parks, commons, and public squares in said city of New Bedford are hereby transferred to and exclusively vested in said board.

SECT. 4. Said board, in relation to the powers, duties, and authority by this act conferred upon it, shall have the same authority heretofore vesting in the mayor and aldermen of said city to make contracts in behalf of and binding upon the city; to appoint, subject to the provisions of chapter three hundred and twenty of the acts of the year eighteen hundred and eighty-four and any acts in amendment thereof, its employes, define their duties and fix their compensation; and, in general, to do all things necessary to a proper performance of their duties.

SECT. 5. Said board shall have authority to procure suitable offices for its own use; and all plans of streets, main drains, common sewers, parks, squares, and public places, electric, telephone, telegraph poles, and other structures in the streets heretofore required by law to be filed, and now on file in the city clerk's office, shall be placed on file in the office of said board and all plans hereafter made shall be filed in the office of said board.

SECT. 6. In case said city shall accept the provisions of chapter one hundred and fifty-four of the acts of the year eighteen hundred and eighty-two and acts in amendment thereof, said board shall constitute the commissioners therein provided for.

At the first organization of this Board, the scope of its authority as defined by the act creating it was believed to

include the power formerly inherent in the Board of Aldermen of granting to corporations or individuals franchises for the use of streets, the right to license the erection and maintenance of poles for the support of wires, and the care and authority over the trees in the streets.

Acting under this belief, a thorough system was established of forms of application and for the record of locations granted for all poles, posts, trees, etc., in the streets of the city.

But during the discussions and action consequent upon the petition of the Union Street Railway Company for the right to locate and maintain poles to sustain the overhead trolley wire, a communication was received from the City Solicitor giving it as his legal opinion that the authority in these matters had not been transferred from the Board of Aldermen, and could not legally be exercised by this Board.

The very rapid increase of the number of poles in the city, and a prompt and proper investigation of all requests for new locations, had already become a most vexatious tax upon the time of this Board.

Under this opinion of the City Solicitor it was all relinquished without complaint.

Considerable block pavement has been laid during the year and its use has been cordially endorsed by the people.

There is no place in the city where the present cobbles need repair, that the blocks could not be substituted with the greatest satisfaction to the people and to this Board, were it not for the excessive first cost. The more prudent policy will be continued of replacing a certain amount of cobbles by block pavement each year.

It grows more and more evident that it will be impossible for the city to supply curb stones and sidewalks in sufficient quantity to keep pace with the rapid building up of our suburbs.

During the many years after the war when our city ceased to grow in population, and stopped all expansion into new territory, an appropriation to this department each year which was exceedingly liberal when we consider the limited area covered, gradually improved the then accepted streets until it was a matter of notoriety that scarcely a city in New England approached us in the mileage of curb stones and flagged sidewalks in proportion to population. The renewal of our growth came suddenly and has continued steadily with no temporary suspensions to allow an opportunity to improve these wide gaps of expansion.

It is obvious to this Board that popular sentiment is strenuous for a large increase in our flagged and concrete sidewalks, and full as large a proportion of our annual appropriation for streets has been used for this purpose as the Board felt authorized to expend.

Other cities in New England, and especially in the west, have been through with this same experience and almost without exception have met it by charging a part or the whole of the cost upon the abutter.

This fact has weight with the Board, in their consideration of this subject, and they believe that ultimately a similar course must be adopted here or a very much larger appropriation will have to be made.

The establishment of a blacksmith shop at the city stables has fully realized the good results expected from it. The prejudice at first existing against it has nearly all been removed, as its economy, convenience, and efficiency have become more manifest. The Superintendent's report gives fully the facts and figures by which this efficiency has been demonstrated.

The determination of the Board to do its own concreting, although made late in the season, has already proved itself a wise one.

The improvements in handling, crushing, and storing

stone for macadam, so fully described by the Superintendent, has resulted in a great saving of labor, in a better quality of product, and in a vast convenience to the department and to the public. When a street is dug up and a passage denied to vehicles it can be immediately covered with broken stone from the storage pockets and opened again to travel, without the delay formerly occasioned by the limited daily output of the crusher.

The establishment of a small repair shop has also proved of great benefit to the department.

The increased importance of a system of street cleaning mentioned in our last year's report, has warranted a larger expenditure for this purpose than ever before. In the year 1888 the amount expended for this purpose was $2,214.49; in 1889, $3,405.32, and during the past year, $5,405.09. It is evident that this large expenditure has been a popular one, and that a still larger one the coming year would meet with general approval.

The original plan of the Board, made soon after its inauguration, designed the establishment of an engineering department. But the multitude of details which came up for arrangement, and more particularly the lack of available room, prevented its fulfillment during the first year.

On the removal of the office of the Board to the Odd Fellows Building, one of the four rooms was taken for the engineering work. The furniture and instruments belonging to the city in the possession of the City Land Surveyor were turned over to this department. It is designed that the Superintendent of Public Works shall establish and direct a systematic performance of all engineering work connected with the department. This work was begun by looking up all plans, notes, records, etc., relating to the streets and sewers. There is very little reliable and accurate data previous to 1880. All this material is being put into a permanent and serviceable shape.

SEWERS.

All sewers laid during the year have been built in accordance with a comprehensive and scientific plan which looks at the future as well as the present.

The Grape street sewer, for which so large an appropriation was asked in the summer, is still in process of construction.

A large trunk sewer in Sawyer street, from Purchase street to the river, recommended by the Superintendent in his report, is imperatively called for and should be built during the coming year. The cost will be large, but the continued straining of the Purchase street sewer and the damage which it already causes, through its inability to carry off the surface water during a heavy rainfall, will not admit of delay.

This Board is still of the opinion that the indiscriminate and irresponsible digging up of the streets to connect drains with the sewers is a pernicious custom. The city should continue all drains from the abutters' line across the street to the sewer, charging the cost therefor. In this way a record could be made of the location of these drains within the limits of the streets, and a proper depth and grade maintained in all cases.

BRIDGE.

During the past year the woodwork of the New Bedford and Fairhaven bridge has been thoroughly overhauled and a great part renewed between Fish island and Pope's island.

A good curbing is much needed and the pavement needs renewal. On this important thoroughfare block paving should be substituted.

The Board would suggest that a sum of seven thousand

or eight thousand dollars be expended annually until that is accomplished. The suggestion of the Superintendent to widen the bridge does not in our judgment call for early action, but should be borne in mind in case any permanent improvements are proposed in the adjoining property.

The very rapid growth of the city continues and this department is daily brought to realize it and provide for it. It is impossible to do this with an appropriation but little larger than those made ten years ago. The expenditures during the past year have not exceeded your appropriation, but much has been denied which should be done. The money has been thoughtfully and carefully handled and made to accomplish as much as possible. If the city government are assured of this fact the Board have no doubt they will willingly appropriate funds to more nearly provide for its needs and encourage such rapid development.

The report of the Superintendent to this Board is very full and supplies the details in regard to the work done the past year and is appended as a part of our Report.

Respectfully submitted.

WALTER CLIFFORD,
WILLIAM A. TUCKER,
MORGAN ROTCH,
EDMUND WOOD,
THOMAS B. TRIPP.

Report of the Superintendent.

City of New Bedford,
Office of the Superintendent,
Odd Fellows Building, January 1, 1891.

To the Board of Public Works:

Gentlemen: — I respectfully submit the following report of work done during the past year and suggestions of work and improvements called for the coming year.

HIGHWAYS AND STREETS.

The work of this department for the year 1890 is fully shown in the tables which have been prepared and which are appended to this report. I would particularly mention this work under the following heads:

Macadam. — The centre crusher located in the city stable has done all the work for the centre of the city. The larger part of this work has been repairs to streets already macadamed or previously given in the Reports as macadam.

The fact that a large part of the streets macadamized in past years were laid with a coating of stone no thicker than three to five inches, has largely increased the cost of repairs, as the work whenever possible has been rebuilt in

a thorough and substantial manner, which practically amounts to new work.

The portable crusher has been in constant operation during the larger part of the year. The first work was on Allen street, from Orchard to Cottage; this was built entirely from the stone excavated in building Oak street sewer from Grape to Allen street in 1889, and saved for this purpose. The crusher was then removed to Rockdale avenue, which was macadamized from Maxfield to Durfee street. This macadam was purposely laid with quite a crown to the surface on account of the large quantity of water necessary to provide for and because the outlying roads do not have as constant attention given them as the streets in closer built districts.

The crusher was next removed to Allen street and the street macadamized from the terminus of the macadam at the old town line to the new town line.

All the stone used on this section was taken from the new southerly extension of Rockdale avenue where it is being graded, between Allen street and Winterville road; this fact has made the cost quite light.

Last, but not least, the Bolton road was partly macadamized. The generous spirit displayed by the Howland Mill Corporation in laying out this road sixty feet wide and grading it nearly its entire length, before asking for its acceptance by the city, and then offering, if the road could be macadamized, to pay for the entire cost of the gutters on both sides, is in pleasing contrast to the demands sometimes made on this department. The crusher remains there this winter ready to finish the road early in the spring.

The erection of an elevator, screen, and storing pocket at the centre crusher, located on the city stable lot, has been one of the great improvements of the year.

The crusher was lowered from its former elevated posi-

tion and placed in a pit, so that the top of the jaws are on a level with the surface of the ground, making it easy to handle the stone. Small stone can be wheeled in a barrow and dumped directly into the jaws of the crusher.

The stone passes thence through a chute into the buckets of the elevator. The elevator carries the stone to the top of the bin, where it is dropped into the upper end of an inclined revolving circular iron screen. This screen is perforated and separates the stone into such sizes as will pass through $\frac{3}{4}$, $1\frac{1}{4}$, and $2\frac{1}{4}$ inch holes.

The dirt and small chips pass through the $\frac{3}{4}$ inch holes into a bin north of the pockets. The small stone passing through the $1\frac{1}{4}$ inch hole forms a fine stone for repairing the surface of streets and is delivered to the bin south of the pockets.

The next size, from $1\frac{1}{4}$ to $2\frac{1}{4}$ inches, forms the stone best suited for macadam; this falls into the main pocket, from which it is run into the carts through iron chutes. The stone that is too large to pass through the screen, slides through a chute directly to the jaws of the crusher again. By this arrangement the crusher can be run continually, whether the stone is being used or not. All the stops, while waiting for the teams, for streets to be dug out, etc., as in the old method, are avoided.

Besides the increase in the quantity of product, the better quality of the stone makes a much finer road and there is a decided decrease in the length of time taken to construct a road.

When the pocket is full and with the crusher running, over three hundred tons of the large grade of stone can be run out in ten hours. The cost of handling and crushing the stone and storing the product has been very materially reduced by this new arrangement; but not until another year can the amount of this reduction be definitely stated, because the cost of minor additions and some changes

shown by actual use to be desirable, have been charged into the maintenance and expense account. The following statements give the cost of stone and crushing, as we have it charged:

CENTRE CRUSHER.

10,306 tons of stone at 40 cents and 50 cents per ton, average 49 cents.
2,403 tons of stone at 23.57 cents per ton.

12,709 tons of stone crushed at an average cost of 32.48 cents per ton.

PORTABLE CRUSHER.

596 tons of stone Allen street between Orchard and Cottage, at 27 cents per ton.
4,477 tons of stone Rockdale avenue between Durfee and Maxfield, at an average of 42 cents per ton.
3,053 tons of stone Allen street between old and new town lines, at 28 cents per ton.
2,899 tons of stone Bolton road between Rivet street and South Beach road, at an average of 39.4 cents per ton.

11,025 tons of stone crushed at an average cost of 35.62 cents per ton.

The following streets call for attention in 1891:

Second street, from Madison to Blackmer.

Fifth street, from Bedford to Grinnell.

Acushnet avenue, from Bedford to Division.

Durfee street, from Cedar street to Shawmut avenue.

Shawmut avenue, from Hathaway road to and across the swamp.

Hathaway road, from Shawmut avenue to Rockdale avenue.

Shawmut avenue, from Durfee street north.

Acushnet avenue, in parts from Washburn street to Lund's corner.

Cottage street, from Morgan to Durfee, is needed very much.

Hillman street, from Chestnut to Ash.

Maxfield street and Sycamore street, from County to Cedar.

Purchase street, from Weld to Coggeshall.

Franklin street, from State to County.

In grading Rockdale avenue, between Allen and Dartmouth streets, enough stone will be found to very nearly macadam the very muddy section from Allen street to Winterville road, and I would recommend that it be done.

Rivet street should be macadamized from Fourth to Dartmouth. This is the only street direct across the city between Grinnell and the Cove road. The offer of the Howland Mills to give ten feet on the south side, from County street to Bolton road, making a street fifty feet wide, certainly recommends a macadam road between the last named points.

Coggeshall street, from Acushnet avenue to the new bridge, should be macadamed. These are only a few of the many streets that call more or less urgently for attention.

Recommendations.—The length of macadam streets has reached about twenty-seven miles; nearly ten per cent. or 2.7 miles, will call for repairs each year. I would suggest that a crusher of larger capacity be procured for the city stable and that the present crusher be located to the north, about the vicinity of Sawyer street, with an elevator, screens, and bin, as at the stable.

The portable crusher, if located near the Orphans Home, about two miles from the stable, with the same arrangement, would serve for the south part and Clarks Point. The cost of handling stone with the portable crusher is in excess of the centre crusher. With the crusher permanently located the expense of running would be very much reduced, and the stone delivered on the work at a reduced cost and much improved in quality and in larger quantity. It is not good economy to cart crushed stone over a mile. Work located between the crushers could then be rushed by two machines. This arrangement

would take care of all work as far north as Lund's corner for a number of years.

If the city expects to gain very much on the total length of macadam a new machine is a necessity. While old work must necessarily be repaired, new work stands still meantime, as far as the centre crusher is concerned.

Graveled Streets. — During the past year quite a number of streets have been graded and made passable.

In January work was begun at the north end. Front and Beetle streets, north of Coggeshall, were cut down to grade, and the material thus obtained was used in grading Coggeshall street between Rock and the river. This last has been quite a large extra expenditure, necessitated by the construction of the new bridge.

Rock street has been made passable from Coggeshall to Coffin avenue; in doing this quite a large quantity of ledge had to be removed by blasting between Coggeshall and Sawyer.

Coffin avenue was cut to grade from Acushnet avenue to Rock street, and the material was used in grading Rock street. The sharp grade of Front street, between Washburn and Cedar Grove, has been greatly improved by cutting a straight grade between said streets. This material was used to fill Front street to grade between Cedar Grove and Coggeshall.

Work on Rockdale avenue (formerly Birch street), between Allen street and the Winterville road, has been quite costly, owing to the large quantity of rock encountered; but this rock has been used to great advantage to macadamize Allen street, as before mentioned.

A gang has been started during the past month grading Rockdale avenue, from Dartmouth street west and north to connect at Winterville with the above mentioned section of Rockdale avenue, from Allen street to Winterville.

Harrison street, between Oak and Hickory, was cut

down to grade and the material used to grade Hickory and Ward streets.

The following streets should be graded soon:

Phillips road should be graveled from Spooner's mill to Braley road. It is now in very poor condition. The sharp hill from Spooner's mill south on the Phillips road should be cut to a lighter and more serviceable grade. The material can be used to advantage on the section north of the mill, as above mentioned.

Tarkiln Hill, on the Tarkiln Hill road, should be cut down to an easier grade. The material can be used to great advantage in graveling the road east of the hill to Lund's corner.

The hills on the Hathaway road, between Shawmut avenue and Rockdale avenue, could be much improved for travel by similar changes.

Rock street opened up and graded from Coffin avenue to Belleville road.

Bowditch street graded from Weld street to Coffin avenue.

West Maxfield, Hunter, and Liberty streets should be graded.

Reed street filled to grade from Union to Arnold.

Rotch avenue graded from Arnold to Hawthorn.

Hawthorn street completed to the new town line.

Page and Oak streets opened through from Allen to Grape.

South Beach road across the Howland Mill property to connect the Cove road with Bolton road and Rockdale avenue.

Orchard street, from Rivet to Cove road.

Cove road, from French avenue to Orchard street.

Acushnet avenue and Second street, from Delano to Division, cut to grade.

Blackmer street, from First to Acushnet avenue, the same.

Rivet street widened ten feet on the south from County street to Bolton road.

Butler street should be cut to an easy grade at the eastern end.

Paving.—The work of the past year is fully set forth in the table appended. Block paving has been laid in William, Purchase, and Union streets.

During the coming year at least one hundred thousand blocks should be purchased. Second street, between Union and William; Acushnet avenue, between Union and William streets; William street, from Acushnet avenue to Purchase street; Purchase street, from Elm to Middle, on the west side of the railroad track; William street, south side of the railroad track, from Pleasant to Sixth street, need block paving.

I have purposely omitted William street, between Second street and Acushnet avenue, and Acushnet avenue, in front of the new postoffice site. These sections should not be block paved till after the operations necessary in building the new postoffice are complete.

The block paving in Purchase street should be extended as fast as possible to Weld street. The order to block pave William street, from Purchase to Pleasant street, is now on file in this office.

Cobble Paving.—The most extensive pieces of cobble paving the past year were the relaying of Acushnet avenue, from Pearl to Mill street, and new paving in Fourth street, between Wing and Bedford, the east side between Bedford and Russell, and between Madison and School on the east side.

During the coming year the paving must be relaid on Acushnet avenue between Mill and William.

Cobble paving should be laid on Fourth street, from Wing to Rivet street; in Rivet street, between Fourth and Water; in Potomska street, between Water and Fourth streets;

in Ash street, west side, between Court and Morgan; in Cedar, from Morgan to Middle; in Cedar street, from Hillman to Parker; and from turnout at Parker street to Locust, and from Austin to Durfee street, and in Durfee street, from Cedar to Mt. Pleasant.

Of the above sections, Fourth street, Wing to Thompson; Rivet street, south side, between Acushnet avenue and Fourth; Potomska street; Ash street, west side; Court to Morgan; Cedar, from Austin to Durfee; and Durfee street, are very much needed.

Water street, from Potomska to Grinnell and from Leonard street to Union, needs more or less attention.

Linden street, from County to Ashland street, should be relaid; this is needed very much. All the half-worn and small paving stones can be economically used to pave the streets having a sharp grade and light travel. They furnish a good even surface and do not wash out in heavy storms.

Curbing and Gutters. — All macadam laid in 1890 was laid with gutters the entire length. Quite a length of gutters was required on the roads macadamized with the portable crusher.

Curbing was laid to quite an extent but nothing in proportion to the growth of the new districts.

It would be too much of an undertaking to mention the needs of the built-up portions of the city for curbing and gutters.

The length of new streets added each year calls for an increase in the length of curbing and gutters.

Any section that can be mentioned would use up the entire appropriation to put it in good condition.

Crosswalks. — Twenty-seven new stone and eighteen new concrete crosswalks have been laid the past year.

Some of the old stone crosswalks should be removed, both as a matter of safety and of economy.

The laying of two or three lines of block paving between the two lines of stones in a crosswalk is a decided improvement. Not less than two lines of crosswalk stones should be laid for any crossing.

Concrete crosswalks appear to be much better on macadam roads than stone, being much cleaner, and better walking in wet weather.

Concrete. — During the past year the department established a concreting outfit, by the erection of a heating plant and storing shed, etc., at the city stable, and the purchase and construction of the necessary tools, rollers, portable heaters, and kettles.

The department has aimed at good work and I think it shows for itself in all cases. A foundation of crushed stone from two to eight inches thick, instead of cinders, has been used invariably.

The statement of work done is fully set forth in the appended tables.

Following is a financial statement of the concreting:

Cost of outfit, shed, and tools,	$437.17	
Crosswalks, new, 396 square yards,	448.77	
Crosswalks, repaired,	5.00	
Sidewalks, new, 4,056 square yards,	2,245.46	
Sidewalks, repaired, 882 square yards,	270.28	
Sundry small repairs,	64.90	
Stock on hand, January 1, 1891,	522.30	$3,993.88
Received from sundry parties for stock, labor, etc.,	$486.52	
Value of stock and tools on hand, January 1, 1891,	882.25	1,368.77
Cost of stock, labor, and teaming on work done for the city,		$2,625.11

Bank Walls. — The material of the bank walls built on Coggeshall street, from Rock street to the river, was mostly taken from the ledge removed from Rock street, north of Coggeshall.

The wall on Rock street, on the east side, between Saw-

yer street and Phillips avenue, was partially completed; this wall is built up as the refuse stone and bowlders are accumulated from time to time from other work in progress.

The bank wall on the east side of Water street, between William and Elm, showing grave signs of weakness, it was rebuilt.

The heavy wall at Clarks Cove was completed a distance of 393 feet west from County street. In building this wall a trench is dug out to hard bottom eight feet wide and filled with small stones, the following tide washing the space between the stones full of sand, forming a very compact foundation. This foundation is brought up nearly level with the original surface of the shore; from this point large stones and cement are used to make the wall of one solid mass.

This wall, when extended across the entire length of the head of the cove, will give a roadway to the Cove road of sixty-six feet in width, from County to Orchard street. With this wall built and the road filled to grade it will make a convenient and well travelled road, easy to keep in repair, compared to its present condition. This wall should be extended the coming year as far west as the money which you think best to appropriate to this work will build it.

Street Cleaning. — Early in the year a thorough system of street sweeping was put in operation and continued for some time.

After expending $5,000 for this purpose, which is twice as much as has been expended before in a year, we were forced to discontinue it.

The sweeping of the paved streets should be regularly done throughout the year and the gutters on gravel and macadam streets cleaned oftener than in the past.

While this requires a very large expense, the benefit to the public at large seems to me to more than repay for the outlay.

I would suggest a constant and systematic cleaning and that from one to four men be employed with hand brooms in the busy section of the city to keep the crossings clean, sweep the paving regularly, and catch and clean up the papers and refuse that are thrown into the streets.

The expense of the cleaning of the streets the past year is as follows:

Gross cost,	$5,405.09
Accounted for in credits,	1,935.97
Net cost,	$3,349.61

Clearing snow and ice:

Gross cost,	$289.27
Credits,	77.77
Net cost,	$211.50

Ashes and Rubbish. — With the increase in population and added length of the daily routes, it will soon be necessary to increase the expense of this item.

The expense for the year has been as follows:

Cost of collecting ashes and rubbish,	$5,855.73
Credit from various accounts for filling,	3,154.20
Net cost to highways and streets,	$2,701.53

Of this sum $2,431.16 is charged in the account of streets graded and graveled.

CITY YARD.

City Stable. — The building designed and finished as an office at the city stable was fitted up during the past year with the old furniture and counter from the Board office in the Library Building.

The weighing scales were moved from the former location on Hillman street to the south side of the office and

the scale beam was placed in the east room. As now arranged one man can do the office work and weighing.

Everything that is reckoned by weight is weighed in and out of the yard. In this way we are able to keep track of all materials.

In the stable proper, the large doors have been hung from the top to allow easy handling. The iron gutters at the rear of the stalls have been covered by planks working on hinges. Four cases of lock drawers for the teamers' use have been made and placed in the stable. Each teamer is given one and is held responsible for all tools, brushes, currycombs, soaps, sponges, etc., given him.

Teaming. — Five new carts were built during the early part of the year. The woodwork, axles, hubs, and bolts were furnished by contract and delivered unpainted for inspection. The iron work was done by our own blacksmith in a very thorough and substantial manner. All the old carts were overhauled and placed in a good condition for the season's work. January 1st, 1890, the department had twenty-eight horses on hand, sold during the year three, one died, bought six. On hand December 31st, 1890, thirty horses. At least four old horses should be sold and replaced by sound animals.

The necessity of more shed room is shown at any time after working hours at the stable; there is not sufficient accommodation for all the carts, gears, etc., under cover. The constant exposure of wagons, etc., largely increases the cost of maintenance and repairs.

STABLE AND TEAMING ACCOUNT.

Stock on hand, January 1, 1890 (horses, teams, harnesses, hay, straw, grain, etc.),	$10,706.30	
Gross cost for 1890,	28,775.60	$39,481.90
Received from water works (board of horses),	$510.29	
For stable dressing,	586.08	
For pork,	210.82	

For horses,	$165.00	
From general sewers (board of horses),	208.00	
From sundry persons,	21.00	
Stock on hand, January 1, 1891 (horses, teams, harnesses, hay, straw, grain, etc.),	14,038.81	$15,740.00
Cost of teaming to highways and streets,		$23,741.90
Charged for work teams have done,		$24,278.36

Blacksmith Shop. — The establishment of a blacksmith shop at the city stables by the Board last year has been abundantly justified by the results. It has resulted in increased convenience, in greater economy, and uniformly good work.

The following account gives the result for the last year. All work done for the water works department and for the different sewers, has been charged for at the lowest prices prevalent throughout the city. The same system of charging has been followed for all work, so that the cost to this department of its blacksmith work can be shown.

BLACKSMITH SHOP.

Stock on hand, January 1, 1890,		$572.94
Gross cost for 1890,		4,284.81
		$4,857.75
Charged to sewers,	$1,198.87	
Water works,	90.94	
Sundry persons,	51.85	
The Common,	3.27	
Received for old iron,	49.56	
Stock on hand, January 1, 1891,	1,523.73	2,918.22
Cost of blacksmith work to street department,		$1,939.53

This includes the following charges at lowest prices to various accounts of the street department:

Ironing off five new carts and steel plates to bottom and sides,	$548.42
Repairs to old carts (thoroughly overhauled and rebuilt fourteen carts, three gears, and lumber wagon),	908.84

Horse shoeing,	$344.01
Repairs in stable,	40.18
One new tool house and repairs on old ones,	103.25
Repairs on steam road roller,	58.98
Repairs in roller house,	15.55
Repairs on crushers,	57.08
Repairs on street sweeper,	20.20
Work on stone pocket and elevator,	221.60
Concrete outfit,	10.63
Miscellaneous repairs to tools, etc.,	880.83
	$3,209.57

From the above it will be seen that the balance of cost of maintaining this department, unpaid by the charges to sewers, water works, etc., is $1,939.53, and this amount represents the net cost to the street department of all its blacksmith work. But this work charged at the lowest current rates would cost the city $3,209.57.

The great saving thus demonstrated from this investment, for purposes of a fair comparison, should be decreased by a proper charge for the rent of the building it occupies and depreciation of fixtures. But it is difficult to show by figures the great satisfaction of uniformly thorough work or the time saved in being able to arrange so that the horses, carts, etc., shall be in the blacksmith shop only when needed to be worked on; the saving on this last item alone will readily be seen by any one.

Roller Shop.—The steam roller and portable engine were overhauled and put in repair early in the year, and worked well the entire season.

A device for removing the reeds from the worn out brooms of the street sweeper has been in use during the year. This work was formerly done by cutting the reeds off close to the roll and the 1800 holes in the roll patiently drilled out. As arranged now, this work is mostly done by steam; a wooden cylinder eighteen inches in diameter and eight feet long has been made, well banded, with one

end fixed, the other swinging on hinges. It is arranged to connect at any time with the boiler of the road roller.

When the broom is worn down, it is placed within this tube, and the steam turned on from the roller; in about twenty to thirty minutes the reeds can be plucked out, the entire operation not taking over an hour at the longest.

The cost for this work is comparatively little to the department, as exhaust steam from the roller is used after the roller has returned from work, and the men, those who are permanently employed. For replacing the reeds, some of the men during rainy weather tie the reeds in little bunches; a kettle of asphalt is heated over a naphtha burner, and it is only necessary to dip the end of each bunch of reeds, one at a time, in the hot asphalt and thrust into each hole in the roll.

Repair Shop.—A small carpenter shop with one man constantly employed has proved of great value to the department during the year, and resulted in quite a saving of expense, by being able to accommodate the repairs to the work and not the work to the repairs. Having such a man on hand has resulted in keeping the repairs up all the time, and the number of such repairs that only need a few minutes is very large. Occasionally it is necessary to hire a helper.

Urgent Needs at the City Yard.—A brick building is much needed at the stable, between the present tool house and the roller house, this building to be used as a tool house, repair, and machine shop. Cost about four thousand to five thousand dollars.

A shed should be built on the west lot on Maxfield street to accommodate the carts, gears, etc., for which there is now no shelter.

This shed should be high enough to provide a second story for storage of derricks, sewer forms, and other materials which accumulate rapidly. These two buildings are very much needed, and should be built at once.

Widening Streets.—During the year Pleasant street was widened, at an expense of $10,000, between Mechanics lane and Elm street (paid by special appropriation). This widening calls attention more forcibly to the need of widening Pleasant street, from William to Union; this section should be widened, or at least the land condemned without delay, as there are no valuable buildings standing in the way at present.

The widening of Purchase street, between Union and Maxfield streets, is a subject demanding early attention. Also Pleasant street, from Kempton street north to the Common. One of the last acts of 1890 was to accept Rockdale avenue fifty feet wide, from Allen to Kempton street, making a fifty foot street through from Dartmouth.

Would it not be a move in the right direction to widen Rockdale avenue from Kempton street to Hathaway road, now? Hawthorn street from the old brook west of Ash street west is a street fifty feet wide; from County to Ash street it is forty.

The buildings on this last named section stand well back from the street. During the year the suggestion was made to me of what an improvement it would make in this the finest residence street, to widen five feet on either side, between County and Ash, leaving the roadway as it is at present, and giving a fine broad walk on the sides.

It seems to me that the residents and property holders along this section would be benefited enough to give a strip of land five feet wide. This would make a vast improvement in the street.

Belleville road, from Belleville wharf to Howard avenue, should be widened to sixty feet, the same width as Rock street, south of Belleville wharf. At the same time the road should be extended the same width through to Main street. This will make a second broad thoroughfare to the Head of the River.

Changes in Grades of Streets.—The grades of several streets should be changed before the building of costly buildings takes place.

The grades of all low streets near tide water should be raised to such an elevation as will insure drainage.

In two places in Water street, at Cannon and between Howland and Grinnell, a rise in tide of two feet above the ordinary high tide has several times flooded the street. Several other streets are entirely too low. Rivet street, between Second and Acushnet avenue, should be regraded, so as not to allow water standing in the street.

Street Car Tracks.—The tracks of the Union Street Railway Company should be removed from Acushnet avenue, between Union and William; they are not used by the company, and are a very costly nuisance to the driving pulic.

The heavy travel through this section of Acushnet avenue certainly deserves consideration.

The track in Kempton street, near Rockdale avenue, leading into the old car house, should be removed, as it is not used at present. The car track leading into River View park from Acushnet avenue near Nash road is another nuisance that appears to be uncalled for. I would suggest that the Board ask to have these tracks removed.

The grades of the tracks in Summer street, from Sycamore to Parker street, should be changed so that the street can be put in good condition.

SEWERS.

The length and kind of sewers laid during the year are fully set forth in the table appended.

The need of a large sewer in Sawyer street, from Purchase street to the river, to drain the valley west of the Old Colony Railroad and north of Sawyer street, and to relieve the present sewer in Purchase street, is a subject demanding early attention.

The Purchase street sewer was not designed to drain the above mentioned valley, and in its present condition causes serious damage by overflowing a number of cellars.

This Sawyer street sewer will also take the flood water of the brook that supplies the Wamsutta Mills pond with water. This will relieve the flooding of cellars and land at every storm in the section bounded by the Old Colony Railroad, Sawyer, Bowditch, and Weld streets.

Grape street sewer is being extended at the present time and should be continued the coming year as far as the brook west of Rural street.

The sewer in Kempton street, from Cottage to Newton street, was lowered to a suitable and useful depth.

In nearly every sewer laid in 1890 branches were placed at every ten feet alternately on the right and left side, for entering the sewer. I would again call attention to the need of this department assuming the control of the laying of drains in the streets to connect with sewers.

In all cases where property owners have requested, the department has laid drains at the expense of the owners. For this work only the cost of labor and material is charged. It is to be hoped that many more requests of this nature will be made in the department the coming year.

This department should do all digging up of the streets for drains and have full control of location, grade, etc.

PARKS AND SQUARES.

Common.—Very little has been done the past year to improve the Common. A good coating of manure from the stable was applied the past month and it is to be expected that the coming year will show the benefit. The paths should be repaired and some new ones added.

I would suggest quite an outlay in repairing and build-

ing new walks, providing outlets for the surface water, the removal of the fence and replacing the same with curbing, and levelling and grading some parts that have been neglected.

City Hall.—This small square has received a heavy dressing of manure the past month. Some repairs to the concrete walks have been made.

Triangle Corner of Ward, Clay, and Hickory Streets.—This plot is small and at little expense can be graded the coming year. Trees could now be planted, which would be growing until such time as the growth of the city in this locality will warrant curbing and other costlier improvements.

NEW BEDFORD AND FAIRHAVEN BRIDGE.

During the past year the timbers on that part of the bridge between Fish island and Pope's island have been thoroughly overhauled and all defective timbers replaced. This section has been planked the entire length.

During the coming year the surface of the roadways on the west approach and the two islands should be paved with blocks and a curbing laid at the north walk. If this is not done, a large part of the present cobble paving must be renewed. I would again call your attention to the need of early action looking toward securing enough land at the western approach and across the two islands to widen the bridge to a width of at least seventy-five feet.

The travel across this bridge is constantly increasing and the widening of the roadway of the bridge is an ultimate necessity which should be borne in mind.

The following report of the draw tender of the New Bedford and Fairhaven bridge for the year ending December 31, 1890, shows the number and kind of vessels for which the draw has been opened.

DRAW TENDER'S REPORT.

Month.	Boats.	Schooners.	Ships & barks.	Tugs.	Barges.	Total.
January,	5	19		32	3	59
February,	6	19		15		40
March,	32	37		45	2	116
April,	53	52		67	9	131
May,	148	41	5	65	11	270
June,	167	49	2	64	19	301
July,	243	68		87	30	428
August,	274	62		73	11	420
September,	172	52	2	31	10	267
October,	97	55		53	11	216
November,	39	33	2	28	11	113
December,	7	42		37	6	92
	1,243	529	11	597	123	2,503

Respectfully submitted.

A. B. DRAKE, Superintendent.

TABLE No. 1.

Macadam Streets, New and Old.—1890.

Streets.	Between what Points.	Length. Feet.	Tons Stone.	Cost.	Remarks.
Allen,	Orchard and Cottage,	435	606	$778.58	New, 22 feet wide.
"	From old to new Dartmouth line,	2,268	2,409	2,465.72	New, 22 feet wide.
Acushnet av.,	Rockland and Potomska,	299	238	372.97	New, 18 feet wide.
"	Nash road and Weld street,		4	8.41	Repaired.
Arnold,	Square at Cottage,	54	51	77.06	Repaired, 38 feet wide.
"	County and Orchard,	400	54	83.38	Repaired, 6 feet wide.
Bolton road,	Contemplated So. Beach road north	1,589	2,243	3,107.35	New, 25 feet wide.
Court,	Ash and Jenney,	1,917	884	1,229.14	Repaired, 18 feet wide.
Cove,	Water and County,	720	617	935.28	Rebuilt.
County,	Union and Spring,	215	81	138.38	Repaired, 24 feet wide.
"	Square at North,	32	18	27.85	Repaired, 38 feet wide.
"	North and Kempton,		4	11.68	Repaired.
"	Square at Mill,	32	14	28.13	Repaired, 32 feet wide.
"	Linden and Robeson,	1,164	715	1,030.20	Repaired, 26 feet wide.
"	Arnold and Walnut,	255	50	78.08	Repaired, 6 feet wide.
Emerson,	Court and Elm,	289	31	47.33	Repaired.
Fifth,	Union and Spring,	192	121	187.96	Rebuilt, 18 feet wide.
"	Bedford and Russell,	310	228	341.44	Rebuilt, 18 feet wide.
"	Madison and Russell,	486	67	108.30	Repaired, 6 feet wide.
Grinnell,	Fourth and County,	420	297	454.72	New, 18 feet wide.
"	County and Crapo,	522	340	520.34	Rebuilt, 18 feet wide.
Hawthorn,	Ash and Cottage,	570	147	268.72	Repaired, 18 feet wide.
"	Square at Cottage,	35	31	57.91	Repaired, 37 feet wide.
"	County and Orchard,	170	61	94.66	Repaired, 18 feet wide.
Hillman,	County and Chestnut,	502	360	464.61	New, 18 feet wide.

Kempton,	County and Purchase,	1,100	317	484.90	Repaired, 17 feet wide.
Mill,	Acushnet avenue and Purchase st.,	200	133	197.66	Rebuilt, 17 feet wide.
"	Chestnut and Summer,	226	157	214.28	New, 18 feet wide.
Middle,	Pleasant and Sixth,	210	107	155.12	Repaired, 17 feet wide.
"	Acushnet avenue and Second st.,	190	76	130.52	Repaired, 18 feet wide.
Morgan,	Cottage and Cedar,	359	218	292.30	New, 18 feet wide.
Pleasant,	Union and William,	375	213	329.73	Repaired, 17 feet wide.
"	Elm and Kempton,	470	385	542.49	Repaired, 25 feet wide.
Rockdale av.,	Durfee and Maxfield,	3,455	4,101	5,144.26	New, 22 feet wide.
Russell,	Acushnet avenue and Fourth st.,	205	110	184.73	Rebuilt, 17 feet wide.
Robeson,	Ashland and County,	335	122	196.76	Repaired, 18 feet wide.
Second,	Spring and Union,	150	84	134.10	Repaired, 18 feet wide.
"	Madison and School,	588	400	595.47	Rebuilt, 18 feet wide.
Spring,	County and Seventh,	420	39	91.29	Repaired, 18 feet wide.
Shawmut av.,	Parker street north,	540	218	320.50	Repaired, 18 feet wide.
Smith,	Cottage and Cedar,	357	251	352.29	New, 18 feet wide.
State,	Campbell and Willis,	238	175	245.92	New, 18 feet wide.
Weld,	Bowditch and Cedar Grove,	175	16	37.79	Repaired.
Wamsutta,	Acushnet avenue and Front street,	264	362	524.13	New, 27 feet wide.
Water,	Union and William,	354	115	184.93	Repaired, 18 feet wide.
William,	Pleasant and Purchase,		5	7.15	Repaired.
	Sundry small repairs,			924 09	
		23,087	17,275	$24,208.61	

TABLE No. 2.

Streets Graveled and Graded. — 1890.

Streets.	Between what Points.	Cost.
Ash,	Hillman and Sycamore,	$53.35
Atlantic,	Union and Arnold,	5.15
Acushnet av.,	Lunds corner, north,	263.28
Austin,	Cedar and Ashland,	43.59
"	Ashland street and Shawmut avenue,	89.63
Arnold,	Park and Atlantic,	10.10
Bonney,	Rockland to south of Rivet,	138.07
Brownell,	Court and Arnold,	319.69
Beetle,	Acushnet avenue and Rock street,	244.74
Braleyville rd.	Acushnet avenue and Freetown line,	12.00
Bethel,	Elm and William,	14.24
Bulter,	East French avenue and Middle road,	17.18
Bolton road,	Rivet street, south,	497.09
Bay,	Cottage and Borden,	5.18
Coffin av.,	Acushnet avenue and Rock street,*	618.29
Church,	Coffin avenue and Earls court,	66.49
Coggeshall,	Acushnet avenue and the river,	1,976.70
Cove road,	County and Orchard,	228.18
County,	Coggeshall and Sawyer,	6.27
"	Cedar Grove and Penniman,	20.50
Clark,	Purchase and Mount Pleasant,	200.53
Cherry,	Sixth and County,	8.00
Crapo,	Cove road, north,	18.30
Chancery,	Hillman and North,	46.53
Cedar Grove,	Purchase and County,	29.37
"	Acushnet avenue and Rock street,	67.08
Cottage,	Elm and Morgan,	14.25
"	Robeson and Durfee,	14.00
"	Locust and Parker,	180.81
"	Smith and Willis,	149.82
Clay,	Oak and Ward,	119.80
Columbia,	Clay and Allen,	55.31
Court,	Jenney and Lindsey,†	15.75
Durfee,	Rockdale and Shawmut avenues,	368.07
"	Mount Pleasant street and Shawmut av.,	76.63
Elm,	Park and Newton,	39.34
"	Florence and Reed,	54.52
Front,	Washburn and Sawyer,	1,749.06
French av.,	Both sides,	780.02
Florence,	Hillman and Kempton,	55.94
First,	Grinnell and Howland,	5.25
Gifford,	Water street, east,	505.30
Griffin,	Water and Second,	51.71
Hillman,	Ash and Newton,	370.24
Hall,	Rockland and Thompson,	85.83

*Partly ledge work.
†Moving wall to north line of street.

Streets Graveled and Graded — *Continued.*

Streets.	Between what Points.	Cost.
Hathaway rd.,	Mt. Pleasant street and Dartmouth line,	$419.22
Hawthorn,	Brigham and Dartmouth line,	936.13
Hickory,	Dartmouth and Harrison,	80.25
Harrison,	Hickory and Oak,	387.19
Hunter,	Kempton and Maxfield,	168.85
Howland,	Prospect and Water,	11.25
James,	Arnold and Court,	91.69
Katharine,	County and Crapo,	167.66
Kilburn,	Front and Rock,	8.50
Liberty,	Court and Kempton,	232.21
Maxfield,	Park and Hunter,	5.91
Middle,	Cedar and Summer,	12.81
Mosher,	County and Crapo,	27.99
Middle Pt rd.,		65.89
Newton,	Court and Hillman,	280.41
Nash road,	Acushnet avenue and Mt. Pleasant,	14.00
North,	Ash and Park,	6.50
"	County and Summer,	12.64
Nelson,	County street west,	287.58
Oak,	Allen and Grape,	126.44
Orchard,	Rivet street, south,	216.64
"	Dartmouth and Grinnell,	5.30
Pope,	County and Chestnut,	111.71
"	East of Acushnet avenue,	171.43
Park,	Smith and Parker,	132.25
"	Kempton and Hillman,	227.99
Peckham,	County and Mt. Pleasant,	18.27
Page,	Allen and Hawthorn,	47.94
Plainville rd.,	Dartmouth line and O. C. R. R.,	95.71
Penniman,	County and Purchase,	95.98
Peckham rd.,	Acushnet avenue, east,	5.30
Potomska,	Fourth and Second,	12.07
Parker,	Rockdale and Shawmut avenues,	831.24
Pleasant,	Elm street and Mechanics lane,*	50.90
Phillips road,	Acushnet avenue and Braleyville road,	48.42
Rock,	Kilburn street and Coffin avenue,	2,538.93
"	Coffin avenue and Belleville road,	902.73
Rockland,	County and Hall,	82.88
Rivet,	Crapo street and Bolton road,	273.87
River road,	Main street and Howard avenue,	8.19
Robeson,	Shawmut avenue, west,	222.98
"	Shawmut avenue and Ashland,	247.36
Rockdale av.,	Allen and Dartmouth,	2,333.92
Reynolds,	Clark and Linden,	13.68
Rotch av.,	Court and Arnold,	174.82
Reed,	Union and Court,	520.80
Sawyer,	Acushnet avenue and the river,	168.86
Second,	Potomska and Delano,	45.24

*Filling east side to grade.

Streets Graveled and Graded — *Concluded.*

Streets.	Between what Points.	Cost.
Second,	Howland and Cannon,	$20.83
State,	Cedar Grove and Clark,	9.72
"	Merrimac and Franklin,	5.58
Shawmut av.,	Hathaway and Cannonville roads,	81.00
Thompson,	County and Crapo,	9.00
Tarkiln Hill rd	Acushnet avenue and Mt. Pleasant,	231.88
Union,	Rotch avenue and Brownell,	28.93
"	Reed and Sisson,	108.57
Wilson,	Durfee and Austin,	59.28
Wing,	Acushnet avenue and Sixth,	164.89
Washburn,	Acushnet avenue and Front,	112.26
Ward,	Allen and Bay,	47.48
Willis,	Summer and Chestnut,	17.35
Weld,	County and Pleasant,	8.85
		$23,545.36

TABLE No. 3.

Curbing and Gutters. — 1890.

Streets.	Between what Points.	Length. Feet.	Cost.	Remarks.
Ash,	Hillman and Maxfield,	24	$14.20	Two new curbing corners west side, at city stable office.
"	Morgan and Middle,	477	83.29	New gutter east side, 3½ feet wide.
Allen,	Cottage and Orchard,	865	92.46	Repaired gutters both sides, 4 feet wide.
"	Brigham and Dartmouth,	2,646	1,316.58	New gutters both sides, 4 feet wide.
"	At Ward,	12	14.00	New curbing southeast corner.
Acushnet av.,	Howland and Griffin,	59	44.30	New curbing east side.
"	Walnut and School,	84	69.05	New curbing east side.
Austin,	At County,	24	24.00	Two new curbing corners.
"	County and State,	85	8.74	Relaid gutter south side.
Arnold,	Chancery and Emerson,	90	93.06	New, north side, with 3½ foot gutter.
Blackmer,	At First,	41	41.56	Four new curbing corners.
Bedford,	County and Green,	266	33.60	Reset curbing north side.
"	Anthony and County,	68	15.00	New broad gutter north side.
"	At Seventh,	24	21.20	Two new curbing corners.
Bay,	Cottage and Ward,	457	106.87	New gutter north side, 4 feet wide.
"	At Borden,	12	9.12	New curbing corner.
Bonney,	Washington and Rockland,	596	397.37	New curbing and 324 feet gutter, 3½ feet wide.
Bolton road,	Rivet and contemplated South Beach road,	3,360	1,078.83	New gutters both sides.
Butler,	East French avenue, west,	127	67.05	New gutters both sides.
County,	Union and William,	236	35.30	Curbing reset east side.
"	Clark and Weld,	50	11.20	Repaired west side.
"	Clark and Penniman,	50	11.25	Repaired west side.
"	Morgan and Elm,	224	54.87	Relaid west side.
"	Parker and Willis,	77	72.47	New curbing, gutter relaid, 3½ feet wide.

Curbing and Gutters — *Continued.*

Streets.	Between what points.	Length. Feet.	Cost.	Remarks.
County,	At Cove,		$10.60	Gutter relaid east side.
"	Linden and Austin,	419	51.82	Gutter relaid east side, 4 feet wide.
"	Austin and Robeson,	621	125.04	Relaid curbing, and gutter 4 feet wide, west side.
"	Austin and Robeson,	585	72.48	Relaid curbing, and gutter east side, 4 feet wide.
"	Mill and North,	440	80.55	Relaid both sides.
"	Kempton and Mill,	155	11.00	Gutter relaid west side.
Clark,	County and Reynolds,	50	10.00	Gutter repaired north side.
Coggeshall,	At Front,	12	9.43	New curbing northwest corner.
Cedar Grove,	At Front,	15	17.31	New curbing southwest corner.
Cedar,	Parker and Willis,	107	7.30	Gutters repaired.
Cottage,	Elm and Morgan,	259	47.23	Gutter repaired 3 feet wide east side.
"	At Elm,	21	6.87	Curbing corner reset.
"	Elm and Kempton,	481	393.88	New curbing and gutter east side.
"	North and Hillman,	248	198.57	New curbing west side.
"	North and Hillman,	270	19.02	Gutter relaid 3½ feet wide west side.
"	Campbell and Smith,	76	53.69	New curbing east side.
"	Campbell and Smith,	102	24.26	New gutter 3½ feet wide east side.
"	Campbell and Willis,	198	201.29	New curbing and gutter east side.
"	Smith and Willis,	477	390.93	New curbing, and gutter 3½ feet wide, west side.
Cove,	County and Water,	1,438	285.73	New gutters both sides.
Campbell,	Cottage and Chestnut,	79	67.85	New curbing south side.
"	Cottage and Chestnut,	106	24.69	New gutter 3½ feet wide south side.
Chestnut,	Hillman and Maxfield,	241	189.92	New curbing west side.
"	Hillman and Maxfield,	273	21.27	Gutter relaid 3 feet wide west side.
"	Locust street, north,	63	15.35	New gutter 3½ feet wide east side.
Durfee,	Shawmut avenue, west,		5.83	Gutter repaired south side.

Durfee,	Mount Pleasant and Ashland,	111	32.01	Relaid curbing, and gutter 3 feet wide, south side.
Dartmouth,	Hickory and Borden,	91	88.64	New curbing west side.
"	Borden and Hickory,	121	12.60	Gutter relaid 3½ feet wide west side.
"	Hickory and Oak,	11	7.90	New curbing west side.
"	At Washington,	12	6.95	Relaid curbing southeast corner.
Elm,	Acushnet avenue and Purchase,	30	23.85	New curbing north side.
Fourth,	Madison and Walnut,	276	55.85	Curbing reset east side.
"	School and Walnut,	140	19.73	Curbing reset east side.
"	Bedford and Russell,		25.40	Curbing reset east side.
"	Potomska and Rivet,	52	12.65	Gutter repaired 3½ feet wide east side.
"	Potomska and Rivet,	51	40.16	New curbing east side.
Fifth,	School and Walnut,	17	12.65	New curbing west side.
"	Spring and Union,	412	58.00	Gutter relaid both sides.
First,	At Rivet,	12	10.92	New curbing southwest corner.
Fair,	Dartmouth and Sears,	68	63.06	New curbing, and gutter 3 feet wide, north side.
French av.,	Cove street, south,	114	15.50	Relaid curbing and gutter west side.
Florence,	Kempton and North,	410	361.73	New curbing and gutter west side.
Grinnell,	First and Second,	15	12.02	New curbing south side.
Griffin,	Second and Water,	375	87.63	New gutter north side.
Howland,	At Second,	31	4.25	Repaired gutter 5 feet wide.
"	Acushnet avenue and Second,	117	97.77	New curbing north side.
Hillman,	County and Chestnut,	1,014	119.66	Relaid gutters 3½ feet wide both sides.
Hill,	Hillman and North,	147	106.80	Relaid curbing and gutter east side.
"	At Hillman,	24	13.60	Relaid gutter 12 feet wide.
Hicks,	At Front,	12	16.10	New curbing corner.
Hickory,	Dartmouth and Harrison,	23	17.02	New curbing south side.
"	Dartmouth and Harrison,	20	15.30	New curbing north side.
Hawthorn,	County and Orchard,	175	26.10	Relaid curbing corner and gutter south side.
"	County and Orchard,	171	44.22	Relaid curbing and gutter north side.
Harrison,	Hickory and Oak,	335	306.27	New curbing, and gutters 3½ feet wide, west side.
Kempton,	Acushnet avenue and Purchase,	15	8.86	Curbing reset north side.

Curbing and Gutters — *Continued.*

Streets.	Between what Points.	Length. Feet.	Cost.	Remarks.
Middle,	Cedar and Summer,	861	$132.45	Curbing, and gutters relaid 3 feet wide, north side.
"	Ash and Cedar,	226	56.86	Relaid curbing and gutter north side.
Mill,	Pleasant and Purchase,	170	162.15	New curbing and gutter relaid north side.
Maxfield,	Thomas and Walden,	101	54.36	68 feet new curbing, gutter 3 feet wide relaid north side.
"	Thomas and Walden,	178	166.49	New curbing, gutter relaid south side.
Morgan,	Cottage and Cedar,	334	85.51	New gutter south side.
"	Cottage and Cedar,	334	52.28	Gutter relaid north side.
Pleasant,	Union and William,	41	5.45	Curbing reset east side.
"	Hillman and North,		9.47	Repaired west side.
"	Elm and Kempton,	873	92.30	Relaid gutters both sides.
"	At High,	32	28.46	Gutters relaid; cost increased by ledge work.
"	At Elm,	32	8.40	Gutter relaid.
"	At Middle,	32	9.41	Relaid two gutters.
Parker,	At Summer,	11	8.70	Repaired curbing and gutter south side.
Park,	Kempton street, south,	40	31.27	New curbing east side.
Rockdale av.,	Durfee and Maxfield,	6,900	1,522.65	New gutters 3½ feet wide both sides.
Reynolds,	Clark and Linden,	50	18.68	Repaired gutters 4 feet wide both sides.
Rock,	At Coggeshall,	26	25.33	New curbing northwest corner.
Robeson,	Ashland and Cottage,	240	225.46	New curbing, and gutters 3½ feet wide, north side.
Russell,	Acushnet avenue and Fourth,	225	92.67	Relaid curbing and gutter north side.
"	Acushnet avenue and Fourth,	225	52.67	Gutter relaid south side.
Rivet,	Acushnet avenue and Fourth,	184	133.05	New curbing north side.
Rockland,	At Crapo,	12	16.45	New curbing southwest corner.
Summer,	Kempton and Middle,	349	47.98	Curbing and gutter relaid west side.

Summer,	Hillman and Maxfield,	8	5.35	Curbing and gutter repaired east side.
State,	Franklin and Merrimac,	287	222.57	New curbing, gutter relaid east side.
"	Franklin and Merrimac,	173	15.64	Gutter relaid west side.
"	At Weld,	17	20.67	New curbing southwest corner.
Second,	Spring and Union,	316	59.44	Gutters relaid both sides.
"	Spring and Union,	50	5.70	Curbing reset east side.
"	School and Spring,	300	72.56	Curbing reset both sides.
"	School and Walnut,	374	72.70	Curbing and gutter relaid east side.
"	School and Walnut,		6.60	Gutter repaired west side.
"	Madison and Walnut,	150	62.50	Curbing and gutter relaid east side.
Sixth,	Bedford and Russell,	150	121.79	New curbing, gutter relaid west side.
Shawmut av.,	Parker street, north,	40	36.44	New curbing, gutter relaid east side.
Smith,	Cedar and Cottage,	653	185.95	Curbing and gutters relaid both sides.
Seventh,	Madison and Walnut,	8	9.60	Curbing and gutter relaid west side.
Thompson,	County and Fourth,	119	21.90	New gutter 3½ feet wide south side.
"	County and Fourth,	84	55.50	New curbing south side.
"	County and Crapo,	675	171.67	New gutter north side 3½ feet wide.
"	County and Crapo,	592	434.45	New curbing north side.
Thomas,	Maxfield and Sycamore,	300	73.65	Relaid curbing, and gutter 3½ feet wide, east side.
Union,	Cottage and Orchard,	95	34.57	Curbing and gutter relaid south side.
"	Cottage and Orchard,	178	45.20	Curbing and gutter relaid north side.
"	Fifth and Sixth,	28	24.20	New curbing south side.
"	Ash and Chancery,	106	98.20	New curbing and gutter north side.
Weld,	Bowditch and Cedar Grove,	185	72.20	Curbing and gutter relaid west side.
"	At Pleasant,	12	11.95	New curbing southwest corner.
William,	County and Eighth,	112	19.55	Curbing and gutter relaid south side.
"	Bethel and Water,	147	104.24	New curbing north side.
"	Bethel and Water,	115	15.40	Curbing reset south side.
"	Pleasant street, east,	77	67.53	New curbing north side.
Washburn,	Acushnet avenue and Front,	1,630	434.00	New gutters north side.
"	Acushnet avenue, east,	35	23.50	New curbing north side.
Water,	Delano and Gifford,	100	82.13	New curbing east side.
"	Delano and Gifford,	46	5.48	Curbing reset east side.
Wamsutta,	Acushnet avenue and Front,	712	185.58	New gutter 3½ feet wide north side.

Curbing and Gutters — *Concluded.*

Streets.	Between what Points.	Length. Feet.	Cost.	Remarks.
Ward,	At Bay,	12	$14.00	New curbing northeast corner.
"	Allen and Bay,	218	72.69	New gutter 4 feet wide east side.
Willis,	At Cedar,	12	10.10	New curbing northwest corner.
"	Cedar and Cottage,	267	227.69	New curbing and gutter north side.
Washington,	County and Fourth,	176	195.20	New curbing south side.
	Sundry small repairs,		36.78	
		41,127	$14,253.85	

TABLE No. 4.

Concrete Sidewalks. — 1890.

Streets.	Between what Points.	Square Yards.	Cost.	Remarks.
Acushnet av.,	Griffin and Howland,	36.37	$29.22	New east side.
"	Elm and Middle,	20.19	15.14	New west side.
"	School and Walnut,	58.30	40.90	New east side.
Austin,	Ashland and County,	352.84	174.95	New north side.
Bedford,	County and Green,	38.97	12.85	Repaired north side.
"	Fourth and Fifth,	29.52	9.52	Repaired south side.
"	Fifth and Sixth,	59.63	33.27	New north side.
Cottage,	At Elm,		5.00	Repaired.
"	Smith and Sycamore,	19.00	15.25	New east side.
"	Elm and Morgan,	101.73	52.75	New east side.
County,	Hazard and Merrimac,	76.39	57.30	New east side.
"	Parker and Willis,	95.79	48.76	New west side.
"	South and Washington,	142.91	81.74	New east side.
"	Austin and Robeson,	373.87	184.86	New west side.
Crapo,	Grinnell and Washington,	78.19	43.29	New east side.
Dartmouth,	Borden and Hickory,	104.16	70.35	New west side.
Elm,	Acushnet av. and Purchase,	34.00	25.50	New north side.
Foster,	High and Middle,	94.49	77.56	New east side.
Franklin,	Pleasant and State,		11.50	Repaired south side.
Fourth,	Grinnell and Wing,	75.66	45.43	New east side.
"	Bedford and Russell,	14.69	7.05	Repaired east side.
Grinnell,	Crapo and County,	35.06	19.43	New south side.
Howland,	Acushnet av. and Second,	70.44	56.60	New north side.
Hawthorn,	County and Orchard,	187.84	169.37	New south side.
Hill,	Hillman and North,	228.10	172.07	New east side.

Concrete Sidewalks — *Concluded.*

Streets.	Between what Points.	Square Yards.	Cost.	Remarks.
Kempton,	Jenney and Liberty,	346.94	$181.55	New south side.
Linden,	Pleasant and Purchase,	78.10	58.57	New south side.
"	County and State,		32.50	Repaired south side.
"	At County,	13.22	7.06	Repaired southwest corner.
Logan,	Bowditch and Purchase,	123.20	93.40	New north side.
Merrimac,	County and State,		27.50	Repaired south side.
Mill,	County and Hill,	50.95	15.09	Repaired north side.
"	Cedar and Cottage,	12.75	5.65	Repaired south side.
Middle,	Ash and Summer,	451.01	400.71	New north side.
Purchase,	Austin and Linden,	162.55	121.91	New west side.
"	Austin and Linden,	114.75	45.90	Repaired east side.
"	Linden and Weld,	58.57	23.43	Repaired west side.
Parker,	Cedar and Shawmut av.,	354.02	167.05	New north side.
Robeson,	Ashland and Cottage,	185.84	87.52	New north side.
Rivet,	Acushnet av. and Fourth,	87.14	44.37	New north side.
"	First and Second,	90.55	51.82	New south side.
State,	Franklin and Merrimac,	244.42	90.45	Repaired west side.
"	Franklin and Merrimac,	234.09	113.89	New east side.
Sixth,	Bedford and Russell,	199.76	111.99	New west side.
"	Bedford and Russell,	38.80	21.70	New east side.
Smith,	Cottage and Spruce,	111.63	60.36	New south side.
Shawmut av.,	Parker, north,	37.39	18.77	New east side.
Second,	At Howland,	7.25	4.26	Repaired northwest corner.
Thomas,	Maxfield and Sycamore,	136.28	65.75	New east side.
"	Maxfield and Hillman,	38.13	21.15	Repaired southeast corner.
Union,	Ash and Emerson,	44.73	24.84	New north side.
Weld,	Bowditch and Cedar Grove,	222.90	197.79	New west side.
Wamsutta,	Acushnet av. and Front,	601.61	354.78	New north side.

William,	Bethel and Water,	122.02	83.36	New north side.
Washburn,	Acushnet av., east,	33.40	26.05	New north side.
Water,	Delano and Division,	158.00	119.50	New east side.
"	Hillman and North,	77.14	47.44	New west side.
Willis,	County and Summer,	206.95	98.88	New south side.
	Sundry small repairs,		94.65	
		6,972.23	$4,379.30	

TABLE No. 5.

Cinder Sidewalks Laid. — 1890.

Streets.	Between what Points.	Length. Feet.	Cost.	Remarks.
Austin,	Cedar and Wilson,	900	$92.78	New both sides.
"	Shawmut av. and Wilson,	270	14.52	New north side.
"	County and Purchase,	715	33.85	Repaired south side.
"	Cedar and Wilson,		5.64	Repaired north side.
Ash,	Hillman and North,	119	15.87	New west side.
"	Clinton and Hawthorn,	360	43.07	New east side.
Allen,	Old and new Dartmouth lines,	4,386	347.96	Graded both sides.
Atlantic,	Arnold and Union,	573	64.31	New east side.
Arnold,	Ocean and Tremont,	257	15.42	New south side.
Borden,	Bay and Dartmouth,	175	15.80	New west side.
Bay,	Borden and Ward,	132	12.81	New south side.
"	Cottage and Ward,	431	17.31	New north side.
Bonney,	Rockland and Washington,	400	13.41	Repaired east side.
Beetle,	Acushnet av. and Howard,	110	7.60	New south side.
Blackburn,	Cedar Grove, north,	246	12.76	New east side.
Babbitt,	Dartmouth, west,	205	35.63	New north side.
Chancery,	Hillman and North,	262	26.42	New east side.
"	Hillman and North,	180	7.40	Repaired west side.
"	Hillman and Maxfield,	72	6.12	New west side.
"	Arnold and Union,	437	40.13	New west side.
"	Arnold and Union,	609	50.52	New east side.
"	Kempton and North,	369	25.03	New west side.
"	Court and Elm,	97	10.35	New west side.
"	Hawthorn, north,		16.40	New east side.
Campbell,	Cedar and Cottage,	111	19.56	New north side.
"	Cottage and Summer,	95	6.45	New south side.

Court,	Park and Tremont,	75	6.76	New south side.
Cottage,	Campbell and Willis,	100	7.48	New west side.
"	Campbell and Willis,	130	12.05	New east side.
"	Campbell and Smith,	92	10.89	New east side.
"	Locust and Robeson,	365	39.04	Repaired both sides.
Cedar,	Locust and Parker,	75	7.44	New east side.
"	Locust and Parker,	225	7.35	Repaired west side.
Coffin av.,	Acushnet av. and Rock,	360	53.18	New south side.
Coggeshall,	Acushnet av. and the river,	1,918	123.35	Repaired north side.
Chestnut,	Locust and Parker,	400	24.02	Repaired east side.
County,	Linden and Weld,	231	6.51	Repaired east side.
"	Cedar Grove and Peckham,	221	10.71	New west side.
Cove,	County and Water,	400	9.25	Graded north side.
"	County and Water,	610	84.47	New south side.
Delano,	Acushnet av. and County,	606	6.73	Repaired north side.
Dartmouth,	Dunbar st. and Dartmouth line,	1,200	73.75	Graded east side.
Durfee,	Cedar and Mt. Pleasant,	200	9.00	Repaired south side.
Emerson,	Kempton and Middle,	120	7.86	Repaired west side.
Elm,	Florence and Reed,		6.50	Graded west side.
First,	Blackmer and Rivet,	225	34.56	New east side.
Fourth,	Potomska and Rivet,	250	5.20	Repaired east side.
Front,	Hicks and Washburn,	138	5.23	Repaired east side.
"	Logan and Wamsutta,	987	24.42	New west side.
"	Kilburn and Washburn,	395	14.95	Repaired both sides.
Grinnell,	Prospect, east,	370	29.28	New south side.
Gifford,	Water, east,	268	35.95	New north side.
Griffin,	Second and Water,	358	38.27	New north side.
Howland,	Prospect and Water,	279	35.97	New south side.
Hazard,	County and Purchase,	793	10.30	Repaired south side.
"	County and State,	350	10.91	Repaired north side.
Hall,	Rockland and Thompson,	292	35.47	New east side.
Hillman,	Chancery and Park,	86	5.00	New north side.
Hawthorn,	Page and Tremont,		50.45	Graded north side.
Katharine,	County and Crapo,	150	7.50	Repaired both sides.
Kempton,	Near Dartmouth line,	112	13.95	Repaired south side.

Cinder Sidewalks Laid — *Concluded.*

Streets.	Between what Points.	Length. Feet.	Cost.	Remarks.
Lindsey,	Court and Kempton,	375	$25.31	New east side.
Mosher,	County and Crapo,	350	55.30	New south side.
Maxfield,	Ash and Park,	375	40.95	Repaired north side.
Morgan,	Ash and Cedar,	200	14.28	New north side.
Mill,	Newton and Park,	146	5.96	Repaired north side.
North,	Newton and Chancery,	578	14.39	Repaired south side.
Parker,	Cedar and Emerson,	164	15.39	New south side.
"	County and Summer,	397	47.85	New south side.
Purchase,	North of Oneko mill,	100	5.72	New west side.
Penniman,	Purchase and State,	349	5.00	Repaired north side.
Park,	Arnold and Union,	320	32.71	New west side.
"	Middle and North,	174	14.74	New west side.
"	Kempton and North,	100	5.50	New east side.
Page,	Allen and Hawthorn,	389	63.61	New west side.
"	Allen and Hawthorn,		9.65	Graded east side.
Rivet,	Crapo and Dartmouth,	1,125	150.87	New north side.
"	Bolton road and Dartmouth,	159	14.50	New south side.
"	Acushnet av. and County,	333	38.73	New north side.
Richmond,	Locust and Parker,	75	6.16	New west side.
"	Locust and Parker,	450	19.50	New east side.
Rockland,	County and Crapo,	475	9.45	Repaired north side.
"	Acushnet av. and Fourth,	180	10.70	Repaired south side.
"	Crapo and Hall,	216	5.00	Repaired south side.
Reynolds,	Linden and Weld,	520	7.80	Repaired east side.
Rockdale,	Durfee and Parker,		158.17	Graded west side.
Robeson,	Ashland and Cottage,	972	57.50	Repaired both sides.
Rock,	Kilburn and Washburn,	431	25.61	New both sides.
"	Coggeshall and Sawyer,	300	27.00	New east side.
Sawyer,	Acushnet av. and Rock,	825	66.98	Repaired north side.

Sawyer,	Acushnet av. and Purchase,	726	69.47	Repaired north side.
"	Rock and the river,	220	28.20	New north side.
"	Rock and the river,	790	37.15	Repaired south side.
Second,	Blackmer and Delano,	130	14.58	New west side.
"	Grinnell and South,	383	20.18	Repaired west side.
"	Cannon and Griffin,	560	45.70	New east side.
"	Potomska and Rivet,	515	16.45	Repaired east side.
Sycamore,	Ash and Cedar,	60	10.17	New south side.
Smith,	Chestnut and Summer,	200	10.60	New south side.
State,	Franklin and Hazard,	560	29.93	Repaired east side.
"	Hazard and Merrimac,	305	15.75	Repaired west side.
"	Clark and Linden,	735	36.08	Repaired east side.
"	Linden and Weld,	500	32.40	Repaired west side.
"	Austin and Hazard,	356	30.46	Repaired west side.
Union,	Ash and Chancery,	400	17.00	Repaired south side.
"	Park and Tremont,	194	17.60	Repaired north side.
Ward,	Allen and Bay,	354	19.44	New both sides.
"	Bay and Dartmouth,	87	6.83	New east side.
Weld,	Pleasant and State,	86	5.00	New south side.
Willis,	Cedar and Cottage,		5.85	Graded north side.
Winsor,	County and Crapo,	754	64.41	New south side.
"	County and Crapo,	758	35.58	Repaired north side.
Warwick,	Rockland and Thompson,	362	30.56	New east side.
	Sundry small repairs,		104.83	
		43,005	$3,479.42	

TABLE No. 6.

Paving New and Old. — 1890.

Streets.	Between what Points.	Length. Feet.	Cost.	Remarks.
Acushnet av.,	Pearl and Union,	3,600	$2,002.36	Repaired.
Ash,	Court and Morgan,	200	145.56	New east of horsecar track.
Bedford,	County and Green,	213	187.07	New both sides of horsecar track.
Blackmer,	Square at First,		71.18	New.
Cedar,	Hillman and Maxfield,	114	50.33	New east of horsecar track.
County,	Square at Elm,		19.32	Repaired.
Dartmouth,	Hickory and Oak,	67	48.69	New west of horsecar track.
Emerson,	Court and Elm,	14	72.81	New block paving 12 feet wide.
"	Court and Elm,	41		New cobble paving 15 feet wide.
Franklin,	Pleasant and Purchase,	28	14.10	Repaired 24 feet wide.
Fourth,	Madison and Walnut,	336	157.99	New 10 feet wide east of horsecar track.
"	School and Walnut,	215	152.13	New 10 feet wide east of horsecar track.
"	Bedford and Russell,	310	222.36	New east of horsecar track.
"	Bedford and Wing,	378	368.58	New both sides of horsecar track.
Linden,	County street, west,	104	89.02	Repaired 34 feet wide.
Maxfield,	Acushnet av. and Purchase,	24	5.10	Repaired 12 feet wide.
"	Acushnet av. and Second,		9.00	Repaired.
Merrimac,	Pleasant and State,	53	9.03	Repaired.
Pleasant,	Square at Merrimac,	41	51.62	New 33 feet wide.
"	Square at Franklin,	32	22.73	Repaired 32 feet wide.
Purchase,	Logan and Weld,		10.98	Repaired.
"	Mill and North,	245	1,038.41	New block paving both sides of horsecar track, between turnout and square at Mill street.
"	Elm and Middle,	186	491.42	New block paving 10 feet 3 inches wide east of horsecar track.

Purchase,	Hillman and North,		46.76	Repaired.
Pearl,	Acushnet av. and Purchase,		56.27	New blocks.
Rockland,	Square at Fourth,	35	28.77	New 18 feet wide.
Rivet,	Acushnet av. and Fourth,	84	73.94	New north of horsecar track 4½ ft. wide.
"	Acushnet av. and Fourth,	98		New north of horsecar track 8½ ft. wide.
Second,	School and Spring,	224	246.95	Repaired 24 feet wide.
Union,	Square at Cottage,		56.36	New.
"	Fifth and Sixth,		101.10	New blocks between horsecar tracks at turnout.
"	Purchase, west,		775.21	New block paving in horsecar track.
William,	Second and Water,	376	2,270.92	New block paving 24 feet wide.
Water,	Square at Cove,		39.07	Repaired.
	Sundry small repairs,		40.01	
		7,018	$8,975.15	

TABLE No. 7.

Flagging New and Old. — 1890.

Streets.	Between what Points.	Length. Feet.	Cost.	Remarks.
Allen,	Dartmouth and Green,		$7.90	Repaired north side.
Acushnet av.,	Union and William,	20	17.29	New west side.
Bedford,	County and Green,	236	130.53	Repaired 4 feet wide south side.
"	County and Green,	294	30.18	Repaired north side.
County,	Campbell and Smith,	222	78.15	Repaired west side.
"	Mill and North,		31.89	Repaired west side.
"	Arnold and Clinton,		25.65	Repaired west side.
"	Court and Union,	94	79.19	New inside and out of 4 ft. walk w. side.
"	Elm and Morgan,	224	66.51	Repaired west side.
"	Court and William,	236	105.30	Repaired east side.
Chestnut,	Hillman and Maxfield,	170	13.00	Repaired west side.
Cottage,	Hillman and North,	267	36.11	Repaired west side.
Court,	Cedar and Cottage,	130	32.91	Repaired south side.
Elm,	Acushnet av. and Second,		10.57	Repaired north side.
Fourth,	Madison and Walnut,	342	62.55	Repaired east side.
"	School and Walnut,	171	13.20	Repaired east side.
"	Bedford and Russell,	330	86.34	Repaired east side.
Fifth,	School and Walnut,	125	56.95	Repaired west side.
French av.,	Cove, south,	91	5.05	Repaired west side.
Howland,	Acushnet av. and Second,	98	20.40	Repaired north side.
Hillman,	Acushnet av. and Second,	42	31.36	Repaired north side.
Hawthorn,	County and Orchard,	225	137.08	Repaired north side.
Kempton,	Chancery and Park,	75	16.40	Repaired south side.
"	Acushnet av. and Second,		14.54	Repaired north side.
"	Acushnet av. and Purchase,	91	87.24	Repaired north side.
"	County and Summer,		15.29	Repaired south side.

Kempton,	Cottage and Summer,		17.01	Repaired south side.
Mill,	Pleasant and Purchase,	170	16.00	Repaired north side.
Morgan,	Cottage and County,		6.33	Repaired north side.
"	Cedar and Cottage,		11.49	Repaired south side.
Maxfield,	Thomas and Walden,		37.22	Repaired south side.
"	Acushnet av. and Second,	215	192.08	New south side.
North,	County and Hill,	51	15.50	Repaired south side.
Pleasant,	North and Hillman,	18	16.65	New west side.
"	Union and William,	61	27.42	Repaired east side.
"	Mechanics lane and William,	133	291.12	New east side.
Purchase,	At Middle,		30.76	Repaired northwest corner.
"	Kempton and Mill,	71	91.72	Repaired east side.
"	Union and William,		19.52	Repaired west side.
"	Union and William,		62.95	Repaired east side.
"	Franklin and Pope,	130	43.01	Repaired west side.
"	Merrimac and Wamsutta,		20.66	Repaired east side.
Russell,	Acushnet av. and Fourth,	232	42.76	Repaired north side.
Sherman,	Bonney and County,	90	16.61	Repaired south side.
Smith,	Park, west,	215	18.85	Repaired north side.
"	Cedar and Cottage,	330	188.76	Repaired north side.
"	Chestnut and Spruce,	107	10.63	Repaired south side.
State,	Campbell and Sycamore,		19.32	Repaired east side.
Seventh,	School and Walnut,		25.61	Repaired west side.
Sixth,	School and Walnut,		7.09	Repaired west side.
"	Spring and Union,	72	189.59	New 8 feet wide east side.
Second,	Madison and School,	524	136.28	Repaired east side.
"	School and Spring,	219	49.81	Repaired both sides.
"	Elm and William,		25.18	Repaired west side.
Thompson,	County and Crapo,		30.68	Repaired north side.
Union,	Fifth and Sixth,	74	170.42	New 7 feet wide south side.
"	County and Orchard,		42.64	Repaired north side.
"	Cottage and Orchard,	77	75.82	New 4 feet wide both sides.
"	Acushnet av. and Second,	16	12.40	Repaired 9 feet wide north side.
"	Cottage and Orchard,	188	50.29	Repaired north side.
William,	County and Eighth,	112	50.00	Repaired south side.

Flagging New and Old — *Concluded.*

Streets.	Between what Points.	Length. Feet.	Cost.	Remarks.
William,	Pleasant and Purchase,	81	$179.27	New north side 9 feet wide.
"	Acushnet av. and Second,		40.81	Repaired north side.
Water,	Elm and Rodman,	138	71.92	Repaired east side.
Walnut,	Fourth and Fifth,		16.39	Repaired south side.
Washington,	At Dartmouth,		18.50	Repaired southeast corner.
	Sundry small repairs,		665.45	
		6,807	$4,266.10	

TABLE No. 8.

Crosswalks New and Old. — 1890.

Streets.	Between what Points.	Length. Feet.	Square Yards.	Cost.	Remarks.
Ash,	Hillman and Maxfield,	30		$47.42	New stone driveway west side.
Acushnet av.,	East side, across Maxfield,			9.95	Repaired.
"	West side, across Maxfield,			7.18	Repaired.
"	Madison and Cannon,			5.13	Repaired driveway east side.
"	West side, across North,			5.18	Repaired.
"	School and Walnut,			15.45	Repaired driveway east side.
Arnold,	South side, across Cottage,			7.51	Repaired.
"	South side, across County,			5.00	Concrete repaired.
Ash,	East side, across Hawthorn,		12.95	22.49	New concrete.
Blackmer,	North side, across First,	22		17.95	New stone.
"	South side, across First,	22		17.96	New stone.
Bedford,	North side, across Seventh,	46		44.75	New stone.
"	North side, across County,			21.43	Repaired.
Bonney,	East side, across Fair,	69		49.05	New stone.
"	East side, across Grinnell,		22.12	20.67	New concrete.
Cottage,	East side, across Union,			6.62	Repaired.
County,	West side, across North,	43		45.44	New stone.
"	West side, across Grinnell,		25.34	23.70	New concrete.
"	East side, across Grinnell,		26.07	24.38	New concrete.
Chestnut,	East side, across Mill,		21.04	17.28	New concrete.
Cedar,	East side, across Smith,		17.95	18.25	New concrete.
"	West side, across Parker,	50		35.79	New stone.
Crapo,	East side, across Grinnell,		22.53	21.06	New concrete.
Dartmouth,	West side, across Hickory,			11.49	Repaired.
Elm,	Both sides, across County,			33.29	Repaired.
"	Both sides, across Acushnet av.,			12.24	Repaired.

Crosswalks New and Old — *Concluded.*

Streets.	Between what Points.	Length. Feet.	Square Yards.	Cost.	Remarks.
First,	West side, across Union,	47		$43.42	New stone.
"	Both sides, across Blackmer,	44		35.92	New stone.
Fourth,	Spring and Union,			8.39	Repaired driveway west side.
"	East side, across Madison,	46		35.57	New stone.
"	East side, across Walnut,			12.38	Repaired.
"	East side, across Russell,			19.75	Repaired.
"	West side, across Grinnell,		24.80	23.20	New concrete.
Florence,	West side, across Mill,	46		47.72	New stone.
"	West side, across North,	46		47.72	New stone.
Fifth,	East side, across Grinnell,		22.80	21.32	New concrete.
Grinnell,	North side, across First,	46		39.86	New stone.
"	North side, across Second,	47		40.20	New stone.
"	South side, across County,		29.33	31.66	New concrete.
"	North side, across County,			24.29	Repaired.
Hawthorn,	North side, across Cottage,		17.33	31.39	New concrete.
"	North side, across Cottage,			10.88	Repaired.
"	Ash and Cottage,			5.61	Repaired driveway south side.
"	North side, across County,			20.78	Repaired.
High,	South side, across County,			19.02	Repaired.
Hillman,	South side, across County,			22.67	Repaired.
"	North side, across County,			21.68	Repaired.
Howland,	Second and Water,	20		12.22	New stone driveway north side.
Kempton,	Both sides, across County,			36.27	Repaired.
Locust,	North side, across County,			19.93	Repaired.
Logan,	Purchase and O. C. R. R.,	22		16.50	New stone driveway north side.
Maxfield,	South side, across Pleasant,	46		34.13	New stone.
"	North side, across County,			21.43	Repaired.
Mill,	North side, across Pleasant,	23		23.22	New stone.
"	North side, across County,		17.30	37.41	New concrete.

Mill,	South side, across County,		27.45	28.07	New concrete.
"	South side, across County,			21.81	Repaired.
Middle,	North side, across Sullivan,			5.50	Repaired.
"	Both sides, across County,			33.11	Repaired.
Merrimac,	North side, across Pleasant,	23		18.09	New stone.
"	South side, across Pleasant,	24		18.13	New stone.
"	North side, across County,			18.93	Repaired.
Madison,	North side, across County,			22.18	Repaired.
North,	South side, across Acushnet av.,			5.05	Repaired.
"	South side, across County,		17.60	37.41	New concrete.
Pleasant,	East side, across Merrimac,	34		28.46	New stone.
"	West side, across Merrimac,	34		27.65	New stone.
Parker,	South side, across Cedar,	50		37.64	New stone.
"	North side, across County,			20.43	Repaired.
Rivet,	North side, across Fourth,	46		32.97	New stone.
Rockland,	North side, across Crapo,		23.82	26.44	New concrete.
"	North side, across Bonney,		23.87	26.43	New concrete.
Second,	East side, across William,			5.50	Repaired.
"	Hillman and North,			25.92	New driveway east side.
Spruce,	West side, across Smith,			6.62	Repaired.
Smith,	Cedar and Cottage,			5.12	Repaired two driveways n. side.
Summer,	West side, across Mill,		20.35	16.31	New concrete.
Sycamore,	South side, across Pleasant,		23.30	21.30	New concrete.
"	Both sides, across County,			34.36	Repaired.
Spring,	North side, across County,			18.93	Repaired.
Thompson,	North side, across Hall,	46		34.74	New stone.
"	North side, across Warwick,	47		34.55	New stone.
Union,	South side, across Cottage,			6.63	Repaired.
"	Both sides, across County,			39.15	Repaired.
Wing,	North side, across Fourth,	44		36.13	New stone.
Water,	West side, across William,			7.00	Repaired.
"	Elm and Rodman,			17.15	New driveway east side.
William,	South side, across Second,			11.00	Repaired.
"	North side, across County,			19.68	Repaired.
Walnut,	Both sides, across Fourth,			20.62	Repaired.
	Sundry small repairs.			40.39	
		1,063	395.95	$2,120.60	

TABLE No. 9.

Bank Walls Built. — 1890.

Streets.	Between what Points.	Length. Feet.	Cost.	Remarks.
Cove road,	County, west,	393	$2,229.55	New sea wall south side.
Coggeshall,	Rock and the river,	1,125	568.74	New south side, 4 feet high.
"	Rock and the river.	800	252.76	New north side, 2½ feet high.
Coffin av.,	Acushnet av. and Rock,	92	78.56	New south side.
Liberty,	Court and Kempton.		19.39	New east side.
Rock,	Phillips av. and Sawyer,	1,300	1,046.08	New east side.
"	Coggeshall and Sawyer,	78	30.51	New west side, 2½ feet wide.
Water,	Elm and William,	71	121.73	Rebuilt 8½ feet high.
		3,859	$4,347.32	

TABLE No. 10.

Fences Built. — 1890.

Streets.	Between what Points.	Cost.	Remarks.
Arnold,	Atlantic and Chancery,	$17.10	Repaired south side.
Coggeshall,	East of Rock,	62.18	New south side.
		$79.28	

MISCELLANEOUS.

Accounts not included in making up the tables:

Cleaning streets,	$5,405.09	
Credit by filling to sundry streets,	1,935.97	$3,469.12
Removing snow and ice,		289.27
Sanding sidewalks,		77.81
Asphalt outfit, shed, and tools,		437.17
Picking up small stones,		292.53
Carting stock to city stable yard,		147.85
Engineering department since July 19th,		801.37
Carpenter shop,		233.06
Trimming trees,		457.94
Labor in city stable yard,		299.57
Tool houses built and repaired,		280,53
Filling holes in streets,		497.17
Tools,		868.26
Oil,		232.24
Car tickets,		45.00
Hack hire,		55.50
Repairing scales,		190.47
Painting sheds,		20.57
Street lines, and plans copied,		25.18
Stone pocket, revolving stone screen, and elevator,		3,880.01
Janitor,		80.00
One-half of stable office expenses, including salaries,		812.09
One-half of main office expenses, including salaries,		2,455.59
Stock, labor, and teaming to Pearl and Willis street sewers,	$657.55	
Stock, labor, and teaming to filling city stable lot extension,	1,983.12	
Stock, labor, and teaming to general sewers,	10,846.00	
" " N. B. water works,	313.29	
" " cemeteries,	305.45	
" " N. B. & F. bridge,	81.51	
" " parks and squares,	248.33	
" " sundry sewers,	1,917.44	
" " sundry parties,	1,908.08	
" " N. B. poor department,	338.92	18,599.69
Stock on hand, Jan. 1st, 1891,		6,013.63
Miscellaneous items not otherwise accounted for,		1,458.82
		$42,020.44

RECAPITULATION.

Macadam, new and old,	$24,208.61
Streets graveled and graded,	23,545.36
Curbings and gutters,	14,253.85
Concrete sidewalks,	4,379.30
Cinder sidewalks,	3,479.42
Paving new and old,	8,975.15
Flagging new and old,	4,266.10
Crosswalks new and old,	2,120.60
Bank walls built,	4,347.32
Fences built,	79.28
Accounts not included in making up tables,	40,561.62
Miscellaneous items not otherwise accounted for,	1,458.82
	$131,675.43

CREDITS.

Appropriation,	$83,000.00
Special appropriation,	17,000.00
Stock on hand, January 1st, 1890,	1,824.90
Received for stock, labor, teaming, &c.,	25,707.74
Transfer to balance,	4,142.79
	$131,675.43

STREET DEPARTMENT.

INVENTORY OF PROPERTY, STABLE AND TOOL HOUSES, JANUARY 1st, 1891.

30 horses,	$5,325.00
9 double carts,	1,950.00
10 single carts,	1,440.00
2 double gears (1 with derrick),	350.00
1 single gear,	75.00
1 single lumber wagon,	65.00
2 express wagons,	100.00
2 light wagons,	175.00
1 buggy,	85.00
11 sets double harness,	490.00

11 sets single harness, heavy,	$285.00
5 steel horse collars,	20.00
9 feed baskets,	4.00
16 stable pails,	13.60
82 tons of hay,	1,230.00
8 tons of straw,	128.00
75 bushels grain,	45.00
8 carriage robes,	30.00
33 horse blankets,	38.00
15 six-tined forks,	14.00
11 hay forks,	8.00
1 hay knife,	1.00
5 wheel jacks,	3.50
36 hitch halters,	18.00
2 wagon wrenches,	2.00
5 monkey wrenches,	5.00
1 sleigh,	30.00
2 large ash sleds,	200.00
1 harrow,	40.00
6 stone-drags,	18.00
8 new plow points and 6 old,	68.00
1 two-horse dirt scoop,	9.00
1 road scraper,	100.00
1 street sweeper,	200.00
1 watering cart,	350.00
1 iron road roller,	300.00
1 derrick with wheels,	30.00
1 stone road roller,	100.00
25 gallons sperm oil,	20.00
1 bushel basket,	.60
1 wash-tub,	.75
9 small pigs,	27.00
1 water tank,	5.00
1 carriage pole,	15.00
1 set light double harnesses,	40.00
1 riding saddle,	2.00
1 express harness,	18.00
20 mane brushes,	7.00
25 horse brushes,	43.75
24 curry combs,	6.96
1 set horse slings,	20.00
3 oil squirters,	1.50
1 ten-gallon oil can,	1.25
6 one-gallon oil cans,	3.00
2 belt punches,	.90

50 feet garden hose,	$3.00
5 tool houses,	200.00
5 tool boxes (1 on wheels),	20.00
27 sledges,	81.00
54 iron bars,	81.00
23 stone-breaking hammers,	10.00
4 striking hammers,	8.00
10 drilling hammers small,	15.00
32 blowing drills,	85.00
150 small drills,	38.00
6 blasting spoons,	4.50
21 stone chisels,	10.50
15 stone sets,	10.00
25 stone points,	12.50
5 levels, spirit,	10.00
3 iron squares,	3.50
13 stone chains,	26.00
4 trowels,	2.00
16 paving hammers,	32.00
13 paving pounders,	39.00
29 paving brooms,	17.00
88 long-handle shovels, R. P.,	22.00
3 long-handle shovels, S. P.,	1.50
1 gallon measure,	.60
28 lbs. wire nails,	1.40
229 short-handle shovels, R. P.,	114.50
32 short-handle shovels, S. P.,	16.00
3 road plows,	30.00
2 long-handle scoop shovels,	1.50
11 short-handle scoop shovels,	8.25
47 hoes, good,	11.75
46 hoes, condemned, old iron,	4.60
102 pick-axes,	158.00
26 mattocks,	39.00
1 bill-hook,	1.00
5 scythes and snathes,	10.00
18 iron rakes,	9.00
4 dirt-pounders,	2.00
1 flag-tamper,	.75
4 cross-cut saws,	13.00
4 hand-saws,	1.60
16 narrow axes,	12.00
2 saw-horses,	1.50
3 brick cleaners,	2.25
1 hydrant wrench,	1.50
3 screw-drivers,	.50

4 wheelbarrows, wooden, new,	$3.20
5 wheelbarrows, iron, good,	22.50
54 short-handle shovels, condemned,	5.40
106 lanterns,	53.00
30 lantern globes,	2.40
12 street horses,	6.00
5 water pails, good, 21 water pails, old,	2.00
2 ladders,	3.00
2 snow-plows,	10.00
49 snow-shovels, wood,	14.70
38 snow-shovels, iron,	34.00
9 ice spades,	4.50
2 sand screens,	10.00
4 stoves and pipes,	32.00
30 gallons black oil,	4.00
4 chocking hammers,	3.00
5 warning signs,	2.50
3 manure rakes,	1.50
1 wrench for plow,	.25
1 set runners for lumber wagon,	9.00
11 drinking dippers,	2.20
10 lantern hooks,	1.00
1 set large blocks and falls,	5.00
1 pair barrel skids,	3.00
6 wire window screens,	6.00
2 wire door screens,	6.00
1 set small blocks,	1.00
2 sets large Fairbanks scales,	250.00
2 sickles,	1.00
2 stone-reamers,	1.00
21 pick handles,	4.50
3 long-handle scrapers,	1.50
9 lbs. backing wedges,	1.35
2 branding irons,	2.00
5 large eveners,	5.00
50 gallons kerosene oil,	5.00
80 lbs. axle grease,	8.00
100 lbs. old rope,	3.00
1 set small blocks and falls,	6.00
4 sets lead harnesses,	46.60
4 sets light harnesses,	53.40
2 tree trimming ropes, manila,	5.00
250 feet old hose,	2.50
9 large steel wedges,	6.75
4 tunnels,	.60

25 lbs. spun yarn,	$2.50	
1 two-quart tin dipper,	.25	
1 marline spike,	.50	
100 lbs. old canvas,	4.00	
2 whiffletrees,	4.00	
1 large block,	1.00	
1 small block,	.75	
5 cast-iron wrenches,	1.00	
4 neck yokes,	2.00	
1 hay rake, wood,	.75	
6 wheelbarrows, iron, old,	12.00	
6 wheelbarrows, wood, old,	9.00	
4 tape-measures, steel,	16.00	
2 straight-edges, long,	1.00	
1 straight-edge, short,	.50	
15 lbs. dynamite, 60 per cent.,	6.75	
15 feet fuse,	.30	
1½ boxes blasting caps,	2.25	
1 cabinet for books,	10.00	
1 bureau,	3.00	
5 chairs,	2.50	
1 feather duster,	.50	
6 new brooms,	3.00	
1 water pot,	.25	
1 large table,	5.00	
5 tons pounding gravel,	3.75	
1160 square feet new flagging,	189.00	
500 square feet old flagging,	50.00	
100 feet new crosswalks,	57.00	
100 feet old crosswalks,	30.00	
200 tons cobble paving,	200.00	
40,000 block paving,	2,094.00	
1,200 feet new curbing,	648.00	
212 feet new curbing corners,	114.48	
960 tons crushed stone,	960.00	
400 tons crushed stone, small size,	400.00	
1000 tons screenings,	1,000.00	
646 tons crusher stone,	258.40	
12 tons beach sand,	9.00	$21,482.79

ROLLER HOUSE.

1 lathe, screw-cutting,	$130.00	
75 feet belting, 2½-inch,	18.75	
22 feet belting, 2-inch,	4.40	

2 shafts, bought with lathe.		
16 feet shafting, 3 pulleys, 4 hangers,	$10.00	
20 lbs. lathe tools,	4.00	
1 ½-inch bench chuck,	8.00	
1 15-inch chuck, bought with lathe.		
1 screw-plate and dies,	5.00	
1 ratchet,	3.00	
21 drills, small, flat,	5.00	
18 taps, ¼-inch to 1-inch,	9.00	
5 reamers,	3.00	
8 twist drills, ¼-inch to 1-inch,	7.50	
2 bits,	.50	
1 extension bit, 1-inch to 2½-inch,	2.00	
12 old files,	.50	
6 new files,	2.25	
1 grindstone,	10.00	
1 hydraulic jack,	45.00	
1 stove and pipe,	16.00	
1 ladder,	1.00	
1 turning chisel,	.75	
1 iron vise,	3.00	
1 turning gouge,	.50	
1 Stilson wrench,	2.50	
1 ladle,	.50	
1 barrel crusher oil,	4.35	
28 gals. cylinder oil,	21.00	
1 chain tackle, 3 tons,	34.00	
1 steam box,	15.00	
1 axe,	.75	
75 lbs. waste,	5.25	
35 ft. 9-in. rubber belt, new,	28.00	
5 bundles reeds for brooms,	60.00	
2 belt punches,	1.50	
3 jack screws,	12.00	$474.00

STATIONARY ENGINE AND BOILER.

1 stationary engine and boiler,	$850.00	
1 monkey wrench,	1.00	
1 belt punch,	.75	
4 flat chisels,	1.00	
1 vise,	2.00	
2 files,	.25	
2 water pails,	.25	

1 scoop shovel,	$.50	
1 axe,	.50	
1 hand saw,	.50	
5 lbs. rubber packing,	2.00	
3 cold chisels,	.75	
3 flat wrenches,	.50	
50 ft. small hose and nozzle,	3.00	
1 chest,	1.00	$864.00

STEAM ROAD ROLLER.

1 steam road roller,	$2,000.00	
1 large monkey wrench,	3.00	
2 small monkey wrenches,	3.00	
1 copper hammer,	.75	
1 iron hammer,	1.50	
1 pair of pipe plyers,	.50	
2 brass oil cans,	1.00	
6 tin oil cans,	.90	
10 small flat wrenches,	2.00	
15 large flat wrenches,	3.75	
2 lanterns,	1.00	
2 small iron chains,	1.20	
1 canvas cover,	12.00	
1 pinch bar,	2.00	
1 set second-hand top gears, steel,	75.00	
2 24-inch steel gears,	86.00	
2 new pinion gears,	46.00	
25 ft. 1-in. suction hose, old,	15.00	
50 ft. 1-in. suction hose, new,	60.00	
75 ft. small hose,	3.75	2,318.35

STONE CRUSHERS.

2 stone crushers,	$1,000.00	
18 plates,	45.00	
3 sets of jaws,	90.00	
10 bushings,	30.00	
1 brass oil can,	1.00	
15 lbs. Babbitt metal,	7.50	
1 elevator with stone pocket,		
1 $2\frac{15}{16}$-in. countershaft,		
4 pulleys,	2,500.00	
3 pillow boxes,		
65 ft. 9-in. belt,		
1 belt clamp,		
6 bulk head plates,	94.00	3,767.50

PORTABLE ENGINE AND BOILER.

1 portable engine and boiler, 1 large wrench, 2 small wrenches, 4 flat wrenches,	$600.00	
2 chisels,	.50	
1 iron square,	1.50	
1 spirit level,	2.00	
3 files,	.50	
1 screw driver,	.25	
1 copper hammer,	.75	
1 pair dividers,	.30	
1 pair nippers,	.25	
1 force pump,	2.50	
1 9-in. rubber belt,	29.00	
1 axe,	.50	
1 hand saw,	.50	
4 water casks,	30.00	
1 tub,	.40	
1 engine house, portable,	20.00	
8 stone tubs,	8.00	$696.95

BLACKSMITH SHOP.

24 lbs. spring steel,	$1.80
72 lbs. machinery steel,	2.88
600 lbs. cast steel,	60.00
533 lbs. drill steel,	53.30
124 lbs. small band iron,	4.34
240 lbs. large band iron,	6.00
1,309 lbs. refined iron,	32.63
525 lbs. Norway iron,	23.63
38 lbs. wedge steel,	1.71
27 lbs. backing steel,	2.03
240 lbs. round iron,	8.40
62 lbs. steel punches and pieces,	6.20
324 lbs. anvil,	32.40
1 swage block,	3.00
8 top swages,	15.00
4 hot chisels,	3.00
3 cold chisels,	3.00
60 lbs. heading tools,	6.00
3 sets hammers,	4.00
5 top fullers,	7.50

3 anvil cutters,	$2.75
1 sharpening stake,	1.50
1 set of wedge tools,	1.25
8 lbs. of hand cold chisels,	1.60
2 tool benches,	3.00
1 steel square,	1.50
18 pairs large tongs,	25.00
7 pairs small tongs,	5.25
2 brick forges,	90.00
1 buffalo forge,	24.00
2 pairs bellows,	36.00
3 tubs,	5.00
2 vise benches,	6.00
2 vises,	6.50
1 stove and pipe,	3.75
1 set screw plates, 7 sizes, and taps,	20.00
1 large set screw plates, 6 sizes, and taps,	50.00
2 lbs. borax,	.30
1 large monkey wrench,	3.00
1 small monkey wrench,	1.75
6 fork wrenches,	7.00
1 key wrench,	4.00
1 bit stock,	2.00
15 bits,	3.50
9 round files,	2.75
6 half round files,	1.88
18 flat files,	5.64
12 file handles,	.36
6 wooden horses,	1.75
2 bolt racks,	4.00
4,000 lbs. coal,	9.00
1 tire oven and tools,	70.00
500 lbs. scrap iron,	3.25
2 oil cups,	.60
8 bottom swages,	14.00
4 bottom fullers,	6.00
1 axletree set,	5.00
2 large sledge hammers,	8.00
4 small sledge hammers,	8.00
2 shovels, S. P.,	2.50
4 forge shovels and pokers,	4.00
8 lbs. washers,	.48
3,690 bolts,	173.06
6 axle clips,	1.20
5 tap wrenches,	7.50
19 lbs. nuts,	.95

4 hand clamps,	$3.00	
1 traveller,	1.50	
1 drawing knife,	.30	
1 bit splice,	.50	
1 overhaul,	.50	
1 long chisel,	.75	
14 drift pins,	1.40	
1 tire bender,	26.00	
1 drilling machine and drills,	30.00	
1 gear and two boxes for sweeper,	3.00	
37 whiffletree ring bolts,	9.15	
17 pairs trace chains,	17.00	
26 lbs. new chain,	1.45	
28 lbs. old springs,	.84	
1 ladder,	1.00	
1 tool rack,	5.00	
2 eveners,	9.00	
9 whiffletrees,	18.00	
2 dozen new mattocks,	60.00	
5 dozen new pickaxes,	105.00	
1 bolt clipper,	5.00	
52 lbs. new splitting drills,	13.00	
25 lbs. new splitting wedges,	7.00	
12 new drilling hammers,	24.00	
102 lbs. points and chisels,	15.30	
229 lbs. new stone sledges,	57.25	
97 lbs. new striking hammers,	24.25	
6 dozen pick eyes,	30.00	
1 calking vise,	14.00	
168 lbs. anvil,	16.80	
815 lbs. horse shoes,	33.90	
106 lbs. horse shoes, toed and heeled,	12.72	
150 lbs. horse shoes, plain,	6.23	
6 shoe rasps,	3.00	
50 lbs. horse shoe nails,	10.00	
2 shoeing boxes and tools,	10.00	
76 lbs. toe calk, steel,	5.70	
2 steel plow points,	15.00	
3 doz. sledge handles,	9.00	
8 pick handles,	2.00	
3 wooden pails,	.30	
18 trace chain hooks,	4.50	
1 set tire stone,	25.00	$1,548.73

CONCRETE.

119 bbls. tar,	$357.00	
24 bbls. pitch,	158.40	
2 bbls. asphalt,	6.90	
2 portable tar kettles,	30.00	
2 stationary tar barrels, set in brick,	2.50	
2 stone rollers,	19.00	
1 wheelbarrow, iron,	4.60	
1 wheelbarrow wood,	.80	
100 lbs. canvas,	8.00	
2 large hoes,	.60	
10 short handle shovels,	5.00	
4 rakes, iron,	2.00	
2 long-handle tar dippers,	4.50	
1 wood saw,	1.00	
1 fine sand screen,	2.00	
4 long-handle shovels,	2.00	
4 pickaxes,	6.00	
1 iron bar,	1.50	
1 hand drill hammer,	2.00	
5 hand drills,	2.50	
2 lbs. backing and wedges,	.30	
2 concrete pounders,	10.00	
1 mattock,	1.55	
1 spirit level,	2.00	
1 sickle,	.50	
1 tape measure,	1.00	
2 one-gallon oil cans,	.25	
4 lanterns,	2.00	
1 broom,	.35	
1 galvanized iron pail,	.25	
1 hatchet,	.25	$882.25

CARPENTER SHOP.

300 ft. pine boards,	$16.50
350 ft. spruce,	5.95
75 ft. white oak plank,	4.50
1 stove and pipe,	7.00
1 scoop shovel,	.30
1 broom,	.25
1 iron bar,	1.50
3 top mauls,	6.00

1 set blocks and fall, small,	$5.00
1 lantern,	.50
2 augers,	.75
1 iron vise,	1.00
1 wooden vise,	1.50
1 level, spirit,	1.50
1 monkey wrench,	.50
1 try square,	.30
1 iron square,	1.00
6 hand saws,	2.40
1 bevel,	.50
3 brad-alls,	.15
1 wood countersink,	.15
1 screw-driver for bit-stock,	.15
8 twist drills, $\frac{1}{8}$-inch to $\frac{1}{2}$-inch,	2.25
19 bits, $\frac{1}{8}$-inch to $1\frac{1}{8}$-inch,	5.00
1 ladder,	.40
1 tool chest,	2.00
1 oil can squirt,	.50
2 cold chisels,	.75
15 lbs. wire nails,	.75
75 lbs. cut nails,	3.00
1 two-quart dipper,	.15
1 paper of tacks, iron,	.10
1 paper of brads,	.12
2 gross screws,	2.20
3 pairs 8-inch strap hinges,	.60
3 gouges,	1.50
2 saw-horses,	.80
3 circular saws,	9.00
1 saw table,	20.00
1 drawing knife,	.50
1 bit-stock,	1.35
1 ratchet bit-stock,	1.50
2 wood screw clamps,	.80
5 planes,	2.50
1 ripping chisel,	.50
8 chisels, $\frac{1}{4}$ inch to 2 inches wide,	3.20
1 angle borer,	1.00
2 screw drivers,	.50
1 rufling hammer,	.25
1 claw hammer,	.25
2 double-faced hammers,	1.30
1 large hatchet,	.50
1 small hatchet,	.30

1 saw, set,	$.65	
14 files,	.40	
1 pair large compasses,	2.00	
1 pair dividers,	.30	
1 pair cutting plyers,	.65	
1 spoke shave,	.50	$125.47
		$32,160.04

TABLE No. 11.

Sewers Built in 1890.

Name.	Location.	Total Cost.	Amount Assessed.	Cost per foot.	Length.	Average depth	Cu. yds. Ledge.	Size of Pipe.					Brick.	
								10-in.	12-in.	15-in.	18-in.	24-in.	36-in.	48-in.
BY SPECIAL	APPROPRIATION.													
Arnold & County,	Walnut to Orchard,	$1,479.07	$739.54	$2.098	705.00	10.66			705.00					
Bowditch,	Weld to Blackburn via Cedar Grove,	2,952.29		2.682	1,100.75	10.01			66.75		1,034.00			
Cedar Grove,	County, west,	1,039.32	519.66	3.464	300.00	12.87			250.00	50.00				
Fifth,	Between Russell and Madison,	2,460.26	1,013.04	4.198	586.00	10.53	*	509.00				77†		
Fourth,	Between Russell and Madison,	961.58	480.79	1.779	540.50	8.29	*	540.50						
Front,	Grinnell, south,	273.87	136.94	1.038	263.80	5.25		263.80						
Front,	Coggeshall, south,	499.57	249.78	1.510	330.75	9.36		330.75						
Fruit,	Rivet to Dartmouth, via Juniper,	2,587.44	1,293.72	2.284	1,132.60	11.86	80.10	915.60	217.00					
Grape,	Extension,	7,065.85		12.396	570.00	12.22	342.00						293.00	277.00
Howard,	Between Coggeshall & Cedar Grove,	484.23	242.12	1.423	340.20	8.97		340.20						
Pope,	Chestnut, east,	325.74	162.87	0.813	356.80	6.17		356.80						
Prospect,	Howland to 40 ft. south of Grinnell,	614.38	307.19	0.965	636.70	6.83		636.70						
Rivet,	Between Acushnet av. and Fourth,	142.47	71.23	1.277	111.50	6.87		111.50						
Second,	Potomska, south,	243.74	121.87	1.082	225.20	6.30		225.20			422.65			
Smith & Walden,	44.85 ft. north of Sycamore to 45.80 ft. east of County,	1,084.01	542.01	2.564	422.65	12.20								
BY GENERAL	SEWER APPROPRIATION.													
Blackburn,	Cedar Grove, north,	377.93	377.93	1.800	210.00	8.56			210.00					
Kempton,†	Newton to Cottage,	6,694.42		3.917	1,709.00	11.83			354.50	1,354.50				
Page,	Between Grape and Allen,	1,250.87	647.25	2.899	431.50	12.07	*	294.00		137.50				
Short,	Page to 50 ft. south of Allen,	1,377.62	696.00	2.840	464.00	9.18	*	464.00						
Spruce,	Parker, north,	142.87	120.52	0.619	227.30	5.47		227.30						
Stone,	Page to 50 ft. south of Allen,	1,337.50	706.50	2.839	471.00	9.18	*	471.00						
Sycamore & Walden,†	14.30 ft. east of State to 44.85 ft. north of Sycamore,	990.04		3.264	303.25	9.20					80.65	222.60		
		$34,325.07	$8,428.96		11,438.50			5,686.35	1,803.25	1,542.00	1,537.30	229.60	293.00	277.00
Pearl and Willis st. sewers, filling over pipes at outlet,		4,311.46												
		$38,636.53												

*Ledge, but was not measured.
†Lowered.

TABLE No. 12.

Catch-Basins Built in 1890.

Streets.	Location.	Cost.
Acushnet av.,	West side, 8 feet north of Union,	$115.38
Arnold,	South side, 122.50 feet east of Park,	123.62
Austin,	Southwest corner of County,	95.71
"	Northwest corner of Wilson,	101.47
Blackmer,	Southwest corner of First,	116.95
Bolton road,	West side, 75 feet south of Rivet,	141.58
"	West side, north of South Beach road,	103.99
Campbell,	Southwest corner of Cottage,	76.55
Cedar,	East side, 5 feet north of Hillman,	91.38
"	West side, 133 feet north of Middle,	70.39
Cedar Grove,	South side, 9 feet west of Front,	104.01
"	South side, 42 feet east of Blackburn,	98.99
Coggeshall,	Northwest corner Rock,	114.31
Cottage,	East side, 8 feet north of Arnold,	89.35
"	Southeast corner of Middle,	88.58
"	Southeast corner of Elm,	97.06
"	Northeast corner of Elm,	96.68
County,	Southwest corner of Elm,	107.88
"	Southwest corner of Robeson,	106.21
"	West side, 23 feet south of Linden,	95.31
"	Northwest corner of Clark,	126.38
"	Southwest corner of Clark,	120.08
"	Northwest corner of Cedar Grove,	92.88
"	Southwest corner of Sawyer,	108.04
"	Northwest corner of Sawyer,	130.13
Crapo,	Northeast corner of Thompson,	73.10
Dartmouth,	Southwest corner of Hickory,	87.10
"	East side, 34 feet south of Hickory,	80.26
Elm,	North side, 6 feet east of Newton,	101.86
Front,	Northwest corner of Coggeshall,	111.43
"	Northwest corner of Hicks,	102.98
Grove,	Northeast corner of Ash,	100.79
Hickory,	Northwest corner of Dartmouth,	91.26
Linden,	South side, 28 feet west of County,	103.15
"	North side, 25 feet east of County,	101.53
"	Northwest corner of Pleasant,	90.26
Lindsey,	East side, 312.50 feet south of Kempton,	92.79
Maxfield,	Northeast corner of Ash,	82.28
Mill,	Southwest corner of County,	81.28
North,	Northeast corner of Park,	79.26
"	Southwest corner of County,	76.14
Parker,	South side, 8 feet west of Cedar,	107.63
"	Southwest corner of Cottage,	83.98
"	Southwest corner of Summer,	96.30
Potomska,	Southwest corner of Second,	88.69
Rock,	Northwest corner of Sawyer,	117.80
Rockland,	North side, 5 feet west of Crapo,	92.26
"	Northwest corner of Fourth,	110.42

Catch-Basins — *Concluded.*

Streets.	Location.	Cost.
Russell,	Southwest corner of Acushnet av.,	$145.69
Second,	Northwest corner of Howland,	86.31
Summer,	Southeast corner of Parker,	77.56
State,	Southwest corner of Weld,	94.74
Tremont,	West side, 8 feet south of Union,	106.77
Ward,	Northeast corner of Bay,	109.88
Water,	East side, 90 feet north of Potomska,	100.40
Weld,	Southwest corner of Pleasant,	86.86
Willis,	Southwest corner of Summer,	79.07
"	Southwest corner of Cottage,	77.82
Total, 58,		$5,730.56

Average cost, $98.80.

TABLE No. 13.

Eyeholes Built in 1890.

Name.	Location.	Cost.
Allen,	North side, 750 feet west of Brigham,	$7.00
"	South side, 736 feet west of Brigham,	7.03
Butler,	Southwest corner East French av.,	17.48
"	Northwest corner East French av.,	17.49
Cedar,	Southeast corner of Morgan,	32.50
Cedar Grove,	North side, 43 feet east of Blackburn,	31.61
Clark,	Northwest corner of County,	15.13
"	Southwest corner of County,	13.63
County,	Northwest corner of Elm,	10.18
"	West side, 14 feet south of Austin,	18.50
Cottage,	Northeast corner of Hawthorn,	26.75
Crapo,	Northeast corner of Rockland,	23.78
E. French av.,	West side, 930 feet south of Butler (including 93 feet 12-inch drain),	62.68
Elm,	Southeast corner of Cedar,	20.80
First,	East side, 120 feet north of Potomska, rebuilt,	16.34
Lincoln,	Northeast corner of Arnold,	21.07
Rockdale,	West side, 20.80 feet south of north line of Parker (46 feet 10-in. drain),	31.05
Wamsutta,	North side, 16.30 feet west of Front,	29.60
"	North side, 275.20 feet west of Front,	29.60
"	North side, 465.10 feet west of Front,	29.60
Water,	East side, 256.80 feet north of Grinnell,	14.61
"	West side, 74 feet north of Cannon, rebuilt,	12.55
"	East side, 75 feet north of Cannon, rebuilt,	12.55
"	West side, 101 feet north of Potomska,	24.14
Weld,	North side, 67 feet west of Pleasant,	22.34
Total, 25,		$548.01

Average cost, $21.92.

TABLE No. 14.

Culverts and Surface Drains Laid in 1890.

Name.	Location.	Length.	Description.	Cost.
Allen,	North side, from Birch street west,	507.00 ft.	10-inch pipe.	$112.96
Butler,	Across French av. on middle line of Butler st.,	178.00 ft.	12-inch pipe.	69.12
Church,	Across street 10 feet north of angle south of Nash road,	46.00 ft.	10-inch pipe.	21.27
Coffin av.,	37 feet east of Rock st., repaired,	40.00 ft.	Sqr. stone culvert.	16.75
Cove road,	Across road 86 feet east of, and south side of road 137 feet east of east angle of town line,	76.25 ft.	18-inch pipe.	81.11
Dartmouth,	Across street 166 feet north of town line, repaired,		Sqr. stone culvert.	36.21
Hawthorn,	Across street 1,052 feet west of Brigham st.,	52.00 ft.	24-inch pipe.	83.61
Hunter,	Across street 147 feet south of Maxfield st.,	40.00 ft.	10-inch pipe.	12.30
Plainville rd.,	At Turner's Mills, repaired,		Sqr. stone culvert.	316.90
Robeson,	Across street 606 feet west of Shawmut av.,	41.00 ft.	15-inch pipe.	20.88
Rock,	Across street 51 feet south of River st.,	64.00 ft.	10-inch pipe.	19.81
"	Across street at Deane st.,	96.00 ft.	10-inch pipe.	28.17
"	Across street 1240 feet south of Belleville road,	64.00 ft.	24-inch pipe.	74.94
Sixth,	Grinnell street, north 80 ft.,	80.00 ft.	10-inch pipe.	23.26
Winterville r.,	Across street 220 feet west of Rockdale av.,	39.40 ft.	18-inch pipe.	36.09
				$953.38

TABLE No. 15.

Sewers Repaired. — 1890.

Streets.	Between what Points.	Cost.	Remarks.
Blackmer,	At Front.	$27.44	Repaired.
Coggeshall,	At the river.	44.02	Repaired.
County,	At Sawyer.	10.51	Repaired.
Elm,	At the river.	36.46	Repaired.
Front,	At Blackmer.	26.28	Repaired.
Gifford,	East of Acushnet av.,	140.26	Filling over pipe.
Howland,	At the river,	3,360.48	Filling over pipe.
Middle,	At Water,	6.49	Repaired.
Oak,	Allen and Grape,	9.20	Filling over sewer.
Rockland,	At Acushnet av.,	63.39	Repaired.
Union.	At the river.	36.35	Repaired.
		$3,760.88	

TABLE No. 16.

Manholes Remodeled. — 1890.

Streets.	Location.	Cost.		Remarks.
Acushnet av.,	At Willis,	$16.75		Fitted for new iron cover.
"	At Bedford,	23.56		" "
First,	North of Potomska,	29.85		" "
Middle,	At Summer,	24.05		" "
School,	At First,	20.95		" "
"	At Fourth,	21.00		" "
"	At Second,	19.74		" "
Spruce,	North of Parker,	22.35		On sewer paid for by C. L. Faunce.
Union,	At Purchase,	24.08		Fitted for new iron cover.
"	At Water,	22.93		" "
"	At Front,	22.34		" "
Walnut,	At Fourth,	18.83		" "
"	At Second,	20.67	$287.10	" "
EYEHOLES REPAIRED.				
Bolton road,		$14.50		
Front,	Logan & Wamsutta,	6.58		
Wamsutta,	East of Acushnet av.,	10.77		
	Sundry small repairs,	15.88	47.73	
CATCH-BASINS REPAIRED.				
Bolton road,		$78.75		Three repaired.
Cannon,	At Water,	15.60		Southwest corner.
Grinnell,	East of County,	19.75		North side.

Manholes Remodeled — *Concluded.*

Streets.	Location.	Cost.		Remarks.
Kempton,	At Ash,	$14.12		Southwest corner.
Merrimac,	East of Purchase,	12.34		North and south sides.
Oak,	At Dartmouth,	6.22		Northwest corner.
Spring,	At Second,	8.85		Southwest corner.
Washburn,	East of Acushnet av.,	7.76		North and south sides.
	Sundry small repairs,	183.28	$346.67	
CULVERTS	REPAIRED.			
Cedar,	At Swamp,	$7.70		
Coggeshall,	At Howard,	16.25		Repaired blind drain.
Phillips road,		3.38		" "
Rock,	North of Sawyer,	6.77	34.10	Repaired surface drain.
			$715.60	
New surface drain at stable crusher,			42.82	
Record of catch-basins,		$36.69		
Record of drains entered,		10.50	47.19	
Catch-basins cleaned,			2,020.17	
Stock furnished, sundry sewers and parties,			3,909.11	
Stock on hand,			4,641.24	
Miscellaneous items,			332.39	
Office expenses, sundry small repairs, etc.,			6,645.49	
			$18,354.01	

RECAPITULATION.

GENERAL SEWERS.

Office expenses, sundry small repairs, &c.,	$6,718.86	
Catch-basins cleaned,	2,020.17	
Stock on hand,	4,641.24	
Catch-basins built,	5,730.56	
Eyeholes built,	548.01	
New culverts and surface drains,	953.38	
Stock furnished, sundry sewers and parties,	3,909.11	
Sewers repaired,	3,760.88	
Sewer construction,	9,540.70	
Catch-basins repaired,	346.67	
Culverts repaired,	34.10	
Record of catch-basins and drains,	47.19	
New drain city stable crusher,	42.82	
Manholes remodeled,	287.10	
Eyeholes repaired,	47.73	
Miscellaneous items,	332.39	$38,960.91

Cr.

Appropriation,	$1,000.00	
Special appropriations,	31,000.00	
Pipe to sewers, &c.,	3,782.68	
Stock on hand, January 1st, 1891,	3,088.80	$38,871.48
Transfer to balance,		89.43
		$38,960.91

NEW SEWERS.

Dr.

Sundry sewers built,	$26,525.28

Cr.

Sundry appropriations,	$29,846.45	
Balance from last year,	417.04	$30,263.49
Expended,		26,525.28
		$3,738.21
Grape street sewer balance carried forward,		2,934.15
Transfer to balance,		$804.06

SEWER DEPARTMENT.

INVENTORY OF PROPERTY, JANUARY 1st, 1891.

2 large tool houses, on wheels,	$150.00
6 mortar boxes,	6.00
8 small derricks,	120.00
1 boom-derrick, with equipment,	300.00
3 large derricks,	91.00
3 pairs small blocks and falls,	23.00
4 pairs large blocks and falls,	65.00
59 lanterns,	30.00
3 diaphragm pumps, with suction hose,	90.00
350 feet of canvas hose,	35.00
11 sledges,	33.00
22 striking hammers,	44.00
3 drilling hammers,	6.00
165 blowing drills,	475.00
52 small drills,	26.00
21 lbs. backing wedges,	5.08
10 blast spoons,	7.00
15 feet of fuse,	1.50
4 lbs. dynamite,	.60
75 caps,	1.13
4 lbs. reel-connecting wire,	10.00
13 stone chains,	26.00
1 chain with rope,	.50
21 iron bars,	31.50
2 iron wedges,	.60
6 stone chisels,	3.00
14 stone points,	7.00
24 long-handle shovels, R. P.,	18.00
62 short-handle shovels, R. P.,	45.00
17 old short-handle shovels, R. P.,	1.70
17 hoes,	4.25
84 pickaxes,	84.00
2 mattocks,	3.00
8 trowels,	6.00
1 monkey wrench,	.50
1 dirt pounder,	.50
1 iron square,	.75
4 axes,	2.00
2 hatchets,	1.00
1 bit-stock and bit,	1.50
4 hand saws,	2.00

22 wooden pails, new,	$2.75
14 wooden pails, old,	1.12
1 keg nails, 60 penny,	4.00
5 hose wrenches,	2.50
3 brick hammers,	1.50
2 wooden mallets,	.50
16 new pump rubbers,	36.00
3 tag ropes and hooks,	.75
4 large wedges,	2.00
1 Victor, No. 2, battery, for blasting,	20.00
5 eyehole gratings, complete,	25.00
2 long-handle dippers,	1.00
18 large tin dippers,	4.50
300 lbs. canvas,	20.00
1 horse,	20.00
1 express wagon,	100.00
1 express harness,	20.00
2 brick hatchets,	.50
4 pairs rubber boots,	8.00
150 bushels brick sand,	7.50
1 cross-cut saw,	2.50
4 claw-hammers,	1.00
5 levels, spirit,	12.50
2 blasting cap cutters,	.50
4 cold chisels,	1.00
1 rake, iron,	.50
2 paving pounders,	6.00
1 hydrant wrench,	.75
4 one-gallon oil cans,	1.00
1 five-gallon oil can,	1.25
2 paving brooms,	1.50
3 pairs pipe tongs,	6.00
1 slip drag,	3.00
9 patent links for chain,	.90
5 wheelbarrows, wooden,	10.00
1 hand hammer,	.35
14 short-handle shovels, S. P.,	8.00
14 long-handle shovels, S. P.,	8.00
3 water tubs,	4.50
1 tape-measure, steel, 50 feet,	5.00
1 squirt can,	.25
1 chocking hammer,	.75
1 paving hammer,	2.00
6 short ladders,	4.50
6 pony shovels,	4.50
52 arches and forms for brick sewers,	100.00

6,900 feet oak plank for catch-basin covers,	$552.00
26 manhole castings,	375.00
3 sets scuttle frames,	15.00
21 wash stones, flag,	21.00
5 cover stones for catch-basins, flag,	50.00
3 cover stones for catch-basins, granite,	15.00
3,000 brick,	30.00
1,159 pieces 6-inch vitrified pipe,	220.21
6 pieces 8-inch vitrified pipe,	1.68
868 pieces 10-inch vitrified pipe,	355.88
867 pieces 12-inch vitrified pipe,	455.17
707 pieces 15-inch vitrified pipe,	537.32
348 pieces 18-inch vitrified pipe,	354.96
286 pieces 24-inch vitrified pipe,	549.12
37 pieces 6-inch bends,	14.06
9 pieces 8-inch bends,	5.40
30 pieces 10-inch bends,	27.00
3 pieces 15-inch bends,	4.50
306 pieces 10-inch pipe, with 6-inch branch,	281.52
63 pieces 10-inch pipe, with 10-inch branch,	57.96
157 pieces 12-inch pipe, with 6-inch branch,	188.40
42 pieces 12-inch pipe, with 10-inch branch,	50.40
121 pieces 15-inch pipe, with 6-inch branch,	211.75
27 pieces 15-inch pipe, with 10-inch branch,	47.25
87 pieces 18-inch pipe, with 6-inch branch,	208.80
22 pieces 18-inch pipe, with 10-inch branch,	52.80
3 pieces 24-inch pipe, with 6-inch branch,	13.50
1 piece 24-inch pipe, with 10-inch branch,	4.50
4 mortar hoes,	2.00
	$6,924.16

NEW BEDFORD AND FAIRHAVEN BRIDGE.

Dr.

John B. Nicholson, draw tender, salary,	$600.00
John B. Nicholson, paid for extra help,	5.00
William F. Sturtevant, setting glass,	.50
David Duff & Son, coal and teaming,	30.50
Weston Howland, wharfage on lumber, &c.,	25.00
Luther Russell, salt,	1.00
James Duddy, teaming,	4.70
Perry P. Jenney & Son, snow shovel,	.45
James H. Sherman, fitting stove, &c.,	7.69

Abram Chase, carpentry,	$3,998.82	
Greene & Wood, lumber,	3,289.56	
N. B. street department, stock, labor, and teaming,	94.80	
Wm. A. Tillinghast, lumber,	91.78	
George S. Bowen & Son, brooms,	1.90	
Pay-rolls,	243.19	$8,394.89

Cr.

Appropriation,	$5,000.00	
Special appropriation,	3,500.00	
Sundry credits,	181.86	$8,681.86
Expended,		8,394.89
Transfer to balance,		$286.97

PARKS AND SQUARES.

Dr.

Street department, bill for stock, labor, teaming, grading, dressing, and repairs to seats and walks,	$759.17	
DeWolf & Vincent, hose and tools,	13.10	
Perry P. Jenney & Son, sharpening and repairing lawn mowers &c.,	50.45	
George D. Richards, broom,	.40	
Pay-rolls,	833.05	$1,656.17

Cr.

Appropriation,	$1,500.00	
Transfer to balance,	156.17	$1,656.17

List of Catch-Basins.

Name.	Location.	Basin.	Opening.
Acushnet av.,	w. s., 213 ft. n. of Grinnell,	In street.	In curb.
"	e. s., 215.30 ft. n. of n. line Grinnell,	"	"
"	n. e. corner Howland,	"	"
"	w. s., 6. ft. s. of Wing,	"	"
"	e. s., 5 ft. n. of Cannon,	"	"
"	w. s., 8 ft. n. of Union,	In walk.	"
"	e. s., on s. line Campbell,	In street.	"
"	e. s., 24 ft. s. of Pearl,	"	"
"	s. e. corner Merrimac,	"	In street.
"	e. s., 100 ft. n. of Wamsutta,	"	"
"	w. s., 175 ft. n. of Wamsutta,	"	"
"	w. s., 481 ft. n. of Wamsutta,	"	"
"	e. s., 484 ft. n. of Wamsutta,	"	"
"	e. s., 8 ft. s. of Logan,	"	In curb.
"	n. w. cor. of Logan,	"	"
"	e. s., 8 ft. n. of Washburn,	"	"
"	n. w. corner Coggeshall,	In walk.	"
"	e. s., 11 ft. n. of Coggeshall,	"	"
Allen,	n. s., 13 ft. w. of Green,	In street.	"
"	n. s., 13 ft. e. of w. line Bonney,	"	In street.
"	s. s., 8 ft. w. of Orchard,	"	"
"	n. s., 6 ft. e. of Cottage,	"	In curb.
"	s. w. corner Ward,	In walk.	"
Arnold,	n. w. corner Lincoln,	In street.	"
"	s. s., 11 ft. e. of Ash,	"	"
"	n. s., 6 ft. w. of Ash,	"	"
"	s. s., 122 ft. e. of Park,	In walk.	"
"	n. s., 112 ft. e. of Park,	"	"
Ash,	e. s., 87 ft. s. of Maple,	In street.	In street.
"	n. w. cor. Maple,	"	"
"	n. e. cor. Union,	In walk.	In curb.
"	n. e. cor. Middle,	In street.	"
Austin,	n. s., 44 ft. w. of Purchase,	"	"
"	s. s., 10 ft. e. of Pleasant,	"	"
"	s. w. cor. County,	In walk.	"
"	n. w. cor. Wilson,	"	"
Bedford,	n. w. cor. Acushnet av.,	In street.	"
"	s. w. cor. Acushnet av.,	"	"
"	s. w. cor. Fourth,	"	"
"	n. w. cor. Fourth,	"	"
"	n. w. cor. County,	In walk.	"
"	s. e. cor. Borden,	"	"
Blackmer,	s. w. cor. First,	"	"
"	n. s., 10 ft. w. of First,	"	"
Bonney,	w. s., 47 ft. s. of Forest,	In street.	"
"	e. s., 27 ft. s. of Forest,	"	"
Campbell,	s. s., 5 ft. e. of Purchase,	"	"
"	s. s., 21 ft. e. of Pleasant,	"	"
"	n. s., 14 ft. e. of State,	"	"
"	s. w. cor. Cottage,	In walk.	"
Cannon,	s. w. cor. Water,	In street.	"

List of Catch-Basins — *Continued.*

Name.	Location.	Basin.	Opening.
Cannon,	n. w. cor. Water,	In street.	In curb.
Cedar,	s. w. cor. Morgan,	"	"
"	w. s., 133 ft. n. of Middle,	In walk.	"
"	w. s., 148 ft. n. of Middle,		"
"	e. s., 5 ft. n. of Hillman,	"	"
"	n. w. cor. Locust,	In street.	"
"	e. s., 14 ft. s. of Austin,	"	"
Cedar Grove,	s. s., 9 ft. w. of Front,	In walk.	"
"	s. s., 42 ft. e. of Blackburn,	"	"
Chancery,	s. e. cor. of Elm,	In street.	"
Clark,	s. s., 5 ft. w. of Purchase,	"	In street.
"	n. s., 18 ft. w. of State,	"	"
"	s. s., 12 ft. w. of State,	"	"
Clinton,	s. s., 15 ft. w. of Ash,	"	In curb.
Coffin,	n. s., 299 ft. e. of Water,	"	"
Coggeshall,	n. w. cor. Rock,	In walk.	"
Cottage,	e. s., 8 ft. n. of Arnold,	"	"
"	e. s., 5 ft. s. of Elm,	"	"
"	n. e. cor. Elm,	"	"
"	n. e. cor. Middle,	"	"
County,	n. e. cor. Delano,	"	"
"	w. s., 39 ft. n. of Mosher,	In street.	"
"	w. s., 7 ft. s. of Thompson,	"	"
"	n. e. cor. Thompson,	"	"
"	w. s., 26 ft. n. of Rockland,	"	"
"	n. w. cor. Washington,	"	"
"	e. s., 15 ft. n. of s. line Sherman,	"	"
"	s. w. cor. Sherman,	"	"
"	n. w. cor. Allen,	"	"
"	s. w. cor. Bedford,	"	"
"	n. e. cor. Bedford,	"	"
"	w. s., 7 ft. n. of Bedford,	"	In street.
"	w. s., 9 ft. n. of s. line Russell,	"	In curb.
"	n. e. cor. Russell,	"	"
"	w. s., 18 ft. n. of s. line Walnut,	"	"
"	w. s., 91 ft. s. of Morgan,	"	"
"	w. s., 55 ft. s. of Morgan,	"	"
"	s. w. cor. Elm,	In walk.	"
"	s. e. cor. Sycamore,	In street.	"
"	s. w. cor. Smith,	"	"
"	w. s., 10 ft. n. of Smith,	"	"
"	e. s., 18 ft. n. of Smith,	"	"
"	s. w. cor. Robeson,	In walk.	"
"	s. e. cor. Hazard,	In street.	"
"	s. e. cor. Austin,	"	"
"	w. s., 15 ft. n. of Austin,	"	"
"	w. s., 23 ft. s. of Linden,	In walk.	"
"	s. w. cor. Clark,	"	"
"	n. w. cor. Clark,	"	"
"	n. w. cor. Cedar Grove,	"	"
"	s. w. cor. Sawyer,	"	"

List of Catch-Basins — *Continued.*

Name.	Location.	Basin.	Opening.
County,	n. w. cor. Sawyer,	In walk.	In curb.
Court,	n. s., 8 ft. w. of Park,	In street.	"
Crapo,	n. e. cor. Thompson,	In walk.	"
"	s. e. cor. Rockland,	In street.	"
Dartmouth,	s. w. cor. Oak,	In walk.	"
"	e. s., 34 ft. s. of Hickory,	"	"
"	s. w. cor. Hickory,	"	"
"	w. s., at cor. of Orchard,	"	"
Division,	n. s., 657 ft. w. of County,	"	"
Durfee,	n. w. cor. Mt. Pleasant,	In street.	"
"	n. s., 15 ft. e. of w. line Wilson,	"	In street.
Elm,	s. w. cor. Water,	In walk.	In curb.
"	n. s., 8 ft. w. of Water,	In street.	"
"	s. s., 10 ft. e. of Second,	"	"
"	n. s., 19 ft. e. of Second,	"	"
"	s. s., 11 ft. w. of Acushnet av.,	"	"
"	n. s., 113 ft. w. of Acushnet av.,	"	"
"	s. s., 5 ft. w. of Purchase,	"	"
"	n. s., 11 ft. w. of Purchase,	"	"
"	n. s., 8 ft. w. of Sixth,	"	"
"	s. s., 16 ft. w. of Sixth,	"	"
"	s. s., 9 ft. e. of Eighth,	"	"
"	n. s., 11 ft. e. of County,	"	"
"	n. w. cor. of County,	"	"
"	n. s., 61 ft. w. of Cottage,	"	"
"	n. s., 5 ft. e. of Cedar,	"	"
"	s. w. cor. Cedar,	"	"
"	s. s., 10 ft. west of Park,	"	"
"	n. e. cor. Newton,	In walk.	"
Fifth,	e. s., 170 ft. n. of Grinnell,	In street.	"
"	w. s., 170 ft. n. of Grinnell,	"	"
First,	e. s., 30 ft. s. of Spring,	"	"
Franklin,	n. s., 15 ft. w. of Pleasant,	"	"
"	s. s., 7 ft. e. of State,	"	"
Front,	w. s., 9 ft. n. of Potomska,	"	"
"	w. s., 105 ft. s. of Howland,	"	In street.
"	e. s., 14 ft. n. of s. line Middle,	"	In curb.
"	n. w. cor. Hicks,	In walk.	"
"	n. w. cor. Coggeshall,	"	"
Grape,	s. w. cor. Oak,	"	"
Grinnell,	n. s., 4 ft. e. of Water,	In street.	In street.
"	s. w. cor. Water,	In walk.	In curb.
"	n. w. cor. First,	"	"
"	s. w. cor. Second,	"	"
"	s. w. cor. Acushnet av.,	"	"
"	n. s., 11 ft. w. of Acushnet av.,	"	"
"	n. s., 6 ft. w. of Fourth,	In street.	In street.
"	s. s., 6 ft. w. of Fourth,	"	In curb.
"	n. s., 14 ft. e. of Sixth,	In walk.	"
"	s. s., 33 ft. e. of Sixth,	"	"
"	n. w. cor. of County,	In street.	"

List of Catch-Basins — *Continued.*

Name.	Location.	Basin.	Opening.
Grinnell,	s. w. cor. of County,	In street.	In curb.
Grove,	n. e. cor. Ash,	In walk.	"
Hawthorn,	n. s., 14 ft. w. of Cottage,	In street.	"
"	n. s., 11 ft. w. of Ash,	"	"
Hazard,	s. s., 10 ft. w. of Pleasant,	"	"
"	n. s. 11 ft. w. of Pleasant,	"	"
"	s. s., 7 ft. e. of State,	"	"
Hickory,	n. w. cor. Dartmouth,	In walk.	"
High,	s. s., 19 ft. e. of Purchase,	In street.	"
"	n. s., 19 ft. e. of Purchase,	"	"
"	s. w. cor. Foster,	"	"
"	n. w. cor. Foster,	"	"
Hillman,	n. s., 7 ft. w. of Second,	"	"
"	s. s., 8 ft. w. of Second,	"	"
"	s. s., 10 ft. e. of Purchase,	"	"
"	n. s., 10 ft. e. of Purchase,	"	"
"	s. s., 40 ft. w. of Foster,	"	"
"	n. s., 65 ft. e. of Walden,	"	"
"	s. s., 8 ft. e. of County,	"	"
"	s. s., 6 ft. w. of Cedar,	"	"
Howland,	n. w. cor. Water,	"	"
Kempton,	n. s., 73 ft. e. of Pleasant,	"	"
"	s. s., 73 ft. e. of Pleasant,	"	"
"	n. s., 38 ft. w. of Hill,	"	"
"	s. s., 72 ft. w. of Hill,	"	"
"	s. s., 2 ft. e. of w. line Chestnut,	"	"
"	n. w. cor. Chestnut,	"	"
"	n. w. cor. Cottage,	"	"
"	n. e. cor. Cedar,	"	"
"	s. e. cor. Cedar,	"	"
"	s. s., 13 ft. w. of Ash,	"	"
"	s. s., 8 ft. e. of Park,	"	"
"	s. s., 114 ft. e. of Newton,	"	"
"	n. s., 7 ft. w. of Newton,	"	"
"	s. s., 6 ft. w. of Liberty,	In walk.	"
"	s. s., 12 ft. e. of Jenney,	In street.	"
"	n. s., 18 ft. e. of Beach,	"	"
Linden,	s. s., 5 ft. w. of Purchase,	"	In street.
"	n. s., 5 ft. w. of Purchase,	"	"
"	n. w. cor. Pleasant,	In walk.	In curb.
"	s. s., 5 ft. w. of Pleasant,	In street.	In street.
"	s. e. cor. County,	"	"
"	n. s., 25 ft. e. of County,	In walk.	In curb.
"	s. s., 28 ft. w. of County,	"	"
Lindsey,	e. s., 310 ft. s. of Kempton,	"	"
Locust,	s. s., 11 ft. e. of Chestnut,	In street.	"
"	n. s., 8 ft. w. of Chestnut,	"	"
"	s. s., 20 ft. e. of Cedar,	"	"
Logan,	s. s., 121 ft. e. of Purchase,	"	In street.
"	n. s., 117 ft. e. of Purchase,	"	"
Madison,	n. s., 18 ft. w. of Water,	"	In curb.

List of Catch-Basins — *Continued.*

Name.	Location.	Basin.	Opening.
Madison,	s. s., 29 ft. w. of Water,	In street.	In curb.
"	s. s., 39 ft. w. of Acushnet av.,	"	"
"	n. s., 20 ft. e. of Fourth,	"	"
"	n. s., 12 ft. e. of Sixth,	"	"
Maxfield,	s. s., 8 ft. w. of Second,	"	"
"	n. s., 5 ft. w. of Purchase,	"	"
"	s. w. cor. Foster,	"	"
"	s. s., 5 ft. w. of Walden,	"	"
"	n. s., 6 ft. w. of Walden,	"	"
"	n. w. cor. County,	"	"
"	s. w. cor. County,	"	"
"	n. e. cor. Ash,	In walk.	"
Mechanics l.,	n. w. cor. Sixth,	In street.	"
Merrimac,	s. s., 140 ft. e. of Purchase,	"	"
"	n. s., 140 ft. e. of Purchase,	"	"
"	s. w. cor. Purchase,	"	"
"	n. w. cor. Purchase,	"	"
"	n. s., 13 ft. w. of Pleasant,	"	"
"	s. s., 18 ft. w. of Pleasant,	"	"
"	n. s., 8 ft. w. of State,	"	"
Middle,	s. s., 10 ft. w. of Second,	"	"
"	n. s., 20 ft. w. of Second,	"	"
"	s. s., 9 ft. w. of Purchase,	"	"
"	n. s., 19 ft. w. of Purchase,	"	"
"	n. s., 12 ft. w. of Foster,	"	"
"	s. w. cor. Sixth,	"	"
"	n. s., 7 ft. e. of County,	"	"
"	n. s., 8 ft. e. of Cedar,	"	"
Mill,	n. w. cor. Acushnet av.,	"	"
"	s. w. cor. Purchase,	"	"
"	n. s., 5 ft. w. of Pleasant,	"	"
"	s. s., 8 ft. e. of Hill,	"	"
"	s. s., 9 ft. e. of County,	"	"
"	s. w. cor. County,	In walk.	"
North,	n. w. cor. Water,	In street.	"
"	s. w. cor. Water,	"	"
"	s. s., 10 ft. w. of Second,	"	"
"	n. s., 5 ft. e. of Acushnet av.,	"	"
"	s. s., 7 ft. w. of Purchase,	"	"
"	n. s., 13 ft. w. of Purchase,	"	"
"	s. s., 5 ft. w. of Foster,	"	"
"	n. s., 13 ft. e. of Hill,	"	"
"	s. s., 6 ft. w. of Hill,	"	"
"	s. s., 15 ft. e. of County,	"	"
"	s. w. cor. County,	In walk.	"
"	s. e. cor. Ash,	"	"
"	n. e. cor. Park,	"	"
Orchard,	e. s., 342 ft. n. of Grinnell,	"	"
Parker,	s. e. cor. Summer,	"	"
"	s. w. cor. Summer,	"	"
"	s. w. cor. Cottage,	"	"

List of Catch-Basins — *Continued.*

Name.	Location.	Basin.	Opening.
Parker,	s. s., 8 ft. w. of Cedar,	In walk.	In curb.
"	n. s., 13 ft. w. of Shawmut av.,	In street.	"
Penniman,	s. s., 5 ft. w. of Purchase,	"	In street.
"	n. s., 8 ft. w. of Purchase,	"	"
"	n. s., 7 ft. e. of State,	"	"
"	s. e. cor. State,	"	"
"	s. w. cor. County,	"	In curb.
Pleasant,	w. s., 5 ft. s. of Market,	"	"
Pope,	n. s., 7 ft. w. of Purchase,	In walk.	"
Potomska,	s. w. cor. Second,	"	"
"	n. e. cor. Acushnet av.,	In street.	"
Prospect,	e. s., at foot of Howland,	In walk.	"
Purchase,	w. s., 9 ft. s. of Pearl,	In street.	"
"	e. s., 21 ft. n. of Pope,	"	"
"	w. s., 49 ft. n. of Pope,	"	"
"	w. s., 5 ft. n. of Franklin,	"	"
"	s. w. cor. Hazard,	"	"
"	n. w. cor. Hazard,	"	"
"	s. w. cor. Austin,	"	"
"	e. s., 25 ft. s. of n. line Austin,	"	"
"	n. w. cor. Austin,	"	"
"	s. w. cor. Weld,	In walk.	"
"	n. w. cor. Clark,	In street.	In street.
"	n. w. cor. Cedar Grove,	"	"
"	w. s., 19 ft. n. of Coggeshall,	"	In curb.
"	n. w. cor. Purchase,	"	"
Reynolds,	e. s., 13 ft. s. of Clark,	"	"
Rivet,	s. e. cor. Acushnet av.,	In street.	"
"	n. e. cor. Acushnet av.,	"	"
"	n. s., 6 ft. w. of County,	In walk.	"
"	n. s., 314 ft. w. of Bonney,	"	"
"	n. w. cor. Juniper,	"	"
Robeson,	s. s., 15 ft. e. of Cedar,	In street.	"
"	n. w. cor. Cedar,	In walk.	"
Rock,	n. w. cor. Sawyer,	"	"
Rockland,	n. s., 7 ft. w. of Acushnet av.,	In street.	"
"	n. w. cor. Fourth,	In walk.	"
"	n. s., 5 ft. w. of Crapo,	"	"
Russell,	n. w. cor. Acushnet av.,	In street.	"
"	s. w. cor. Acushnet av.,	In walk.	"
"	n. w. cor. Fourth,	In street.	"
"	s. s., 20 ft. w. of Fifth,	"	"
School,	n. s., 9 ft. e. of Second,	"	"
"	s. s., 9 ft. w. of Second,	"	"
"	n. s., 7 ft. e. of Fourth,	"	"
"	s. s., 39 ft. w. of Fourth,	"	"
"	n. s., 11 ft. w. of Sixth,	"	"
"	s. s., 13 ft. w. of Sixth,	"	"
Second,	n. w. cor. Howland,	In walk.	"
"	w. s., 5 ft. s. of Spring,	In street.	"
Sixth,	w. s., 99 ft. n. of Grinnell,	"	"

List of Catch-Basins — *Continued.*

Name.	Location.	Basin.	Opening.
Smith,	s. e. cor. Chestnut,	In street.	In curb.
"	n. s., 9 ft. e. of Park,	"	"
South,	n. s., 9 ft. e. of Fourth,	"	"
Spring,	n. s., 9 ft. w. of Acushnet av.,	"	"
"	s. s., 18 ft. w. of Fourth,	"	"
"	s. s., 22 ft. w. of Sixth,	"	"
"	n. s., 31 ft. w. of Sixth,	"	"
State,	s. w. cor. Weld,	In walk.	"
Summer,	w. s., 5 ft. n. of Sycamore,	In street.	"
"	w. s., 9 ft. s. of Smith,	"	"
Sycamore,	s. s., 7 ft. w. of Pleasant,	"	"
"	n. w. cor. Walden,	"	"
"	s. s., 6 ft. e. of Thomas,	"	"
"	n. w. cor. County,	"	"
Tremont,	w. s., 8 ft. s. of Union,	In walk.	"
Union,	s. s., 6 ft. w. of Water,	In street.	"
"	n. s., 6 ft. w. of Water,	"	"
"	n. w. cor. Second,	"	"
"	s. s., 6 ft. w. of Fourth,	"	"
"	n. s., 15 ft. w. of Fourth,	"	"
"	n. s., 9 ft. w. of Sixth,	"	"
"	s. w. cor. Seventh,	"	"
"	n. w. cor. Eighth,	"	"
"	s. s., 6 ft. w. of Eighth,	"	"
Walnut,	s. s., on e. line Front,	"	"
"	n. s., 9 ft. w. of Water,	"	"
"	s. s., 11 ft. w. of Water,	"	"
"	n. s., 18 ft. w. of Fourth,	"	"
"	s. s., 20 ft. w. of Fourth,	"	"
"	s. s., 10 ft. w. of Sixth,	"	"
"	n. s., 16 ft. e. of County,	"	"
Wamsutta,	s. s., 148 ft. w. of Acushnet av.,	"	"
"	n. s., 160 ft. w. of Acushnet av.,	"	"
Ward,	n. e. cor. Bay,	In walk.	"
Washburn,	n. w. cor. Front,	In street.	"
"	s. s., 277 ft. w. of Front,	"	"
Washington,	n. s., 8 ft. w. of County,	"	"
"	n. s., 5 ft. e. of Crapo,	"	"
"	s. w. cor. Orchard,	In walk.	"
"	n. e. cor. Orchard,	"	"
Water,	w. s., 16 ft. s. of Rivet,	In street.	"
"	w. s., 15 ft. s. of Potomska,	"	"
"	e. s., 90 ft. n. of Potomska,	In walk.	"
"	s. w. cor. Cannon,	In street.	"
"	s. e. cor. Cannon,	"	"
"	s. w. cor. Coffin,	"	"
"	e. s., 44 ft. s. of Spring,	"	"
"	w. s., 11 ft. n. of William,	"	"
"	e. s., 9 ft. s. of Elm,	"	"
"	e. s., 20 ft. n. of s. line Elm,	"	"
"	s. e. cor. Ark lane,	"	"

List of Catch-Basins — *Concluded.*

Name.	Location.	Basin.	Opening.
Water,	e. s., 12 ft. s. of n. line North,	In street.	In curb.
Weld,	n. s., second angle, e. of Bowditch,	In walk.	"
"	s. s., 4 ft. e. of Bowditch,	In street.	"
"	s. s., 95 ft. e. of Purchase,	In walk.	"
"	s. w. cor. Pleasant,	"	"
"	s. s., 6 ft. w. of County,	"	"
William,	s. s., 9 ft. w. of Second,	In street.	"
"	n. s., 8 ft. e. of Purchase,	"	"
"	s. w. cor. Purchase,	"	"
"	n. s., 15 ft. w. of Purchase,	"	"
"	n. e. cor. Sixth,	"	"
"	s. s., 9 ft. w. of Sixth,	"	"
"	n. s., 8 ft. e. of Eighth,	"	"
"	n. s., 8 ft. e. of County,	"	"
Willis,	n. s., 9 ft. w. of Acushnet av.,	"	"
"	s. s., 3 ft. e. of Purchase,	"	"
"	n. s., 15 ft. w. of Purchase,	"	"
"	s. w. cor. Summer,	In walk.	"
"	s. w. cor. Cottage,	"	"
Wing,	n. w. cor. Fourth,	"	"
"	s. s., 7 ft. w. of Fourth,	In street.	"
"	n. s., 6 ft. e. of Sixth,	"	"

List of Eyeholes.

Name.	Location.
Acushnet av.,	e. s., 7 ft. s. of Merrimac.
"	e. s., 102 ft. s. of Wamsutta.
"	e. s., 112 ft. n. "
"	e. s., 493 ft. n. "
"	w. s., 207 ft. n. of Sawyer.
"	e. s., 216 ft. n. "
Allen,	n. s., 7 ft. w. of Ward.
"	n. s., 572 ft. w. of Page.
"	s. s., 736 ft. w. of Brigham.
"	n. s., 750 ft " "
Butler,	n. w. cor. E. French av.
"	s. w. " "
Cedar,	s. e. cor. Morgan.
"	e. s., 106 ft. n. of Middle.
Cedar Grove,	n. s., 43 ft. e. of Blackburn.
"	Middle, 262 ft. w. of County.
Clark,	s. s., 4 ft. w. of Purchase.
"	n. s., 8 ft. w. of Purchase.
"	n. s., 11 ft. w. of State.
"	s. s., 13 ft. w. of State.
"	s. w. cor. Connty.
"	n. w. cor. County.
Cottage,	n. e. cor. Hawthorn.
County,	n. w. cor. Elm.
"	w. s., 14 ft. s. of Austin.
Crapo,	n. e. cor. Rockland.
Elm,	s. e. cor. Cedar.
First,	e. s., 121 ft. n. of Potomska.
"	e. s., 219 ft. n. of Grinnell.
Front,	e. s., 32 ft. s. of School.
"	45 ft. e. of w. line Front, 15 feet n. of s. line School.
"	w. s., 306 ft. n. of Wamsutta.
Grape,	n. w. cor of Oak.
Hawthorn,	n. s., 108 ft. w. of Ash.
"	s. s., 105 ft. w. of Ash.
"	s. s., 254 ft. e. of Tremont.
Hillman,	s. s., 50 w. of Water.
Howland,	n. s., 14 ft. w. of e. line Front.
Kempton,	n. s., 85 ft. e. of Newton.
"	n. s., 209 ft. w. of Rockdale av.
"	s. s. " "
Lincoln,	n. e. cor. Arnold.
Linden,	s. s., 11 ft. w. of Purchase.
"	n. s., " " "
"	s. w. cor. Pleasant.
"	s. e. cor. County.
Maxfield,	s. s., 124 ft. e. of Second.
"	n. s., 6 ft. e. of Park.
"	s. s., 5 ft. e. of Park.
Mt. Pleasant,	w. s., 810 ft. n. of s. line Peckham.
"	e. s., 814 ft. " " " "
"	w. s., 123 ft. s. of Fall River R. R.

List of Eyeholes — *Concluded.*

Name.	Location.
Mt. Pleasant,	e. s., 13 ft. s. of angle, s. of F. R. R. R.
Parker,	n. s., 22 ft. w. of e. line Summer.
Pearl,	n. w. cor. of Purchase.
Penniman,	s. s., 12 ft. w. of Purchase.
"	n. s., 14 ft. w. of Purchase.
"	n. s., 13 ft. e. of State.
"	s. s., 7 ft. e. of State.
"	s. s., 6 ft. w. of County.
Pleasant,	w. s., 95 ft. n. of Sycamore.
Pope,	s. s., 28 ft. w. of Purchase.
Purchase,	s. e. cor. of Pearl.
"	n. e. cor. of Pearl.
"	e. s., 64 ft. n. of Pearl.
"	w. s., 228 ft. n. of Linden.
Reynolds,	w. s., 14 ft. s. of Clark.
Rivet,	n. w. cor. First.
"	s. s., 10 ft. w. of First.
"	s. w. cor. Juniper.
Robeson,	s. s., 12 ft. w. of Cedar.
Rockdale,	At head of Parker.
Rockland,	s. w. cor. Acushnet av.
Second,	e. s., 196 ft. n. of Potomska.
"	e. s., 226 ft. n. of Grinnell.
"	w. s., 109 ft. n. of Cannon.
"	e. s., 113 ft. " "
Shawmut,	w. s., 400 ft. n. of Durfee.
"	e. s., 460 ft. n. of Durfee.
Sherman,	s. s., 139 ft. e. of Bonney.
"	n. s., 120 ft. " "
State,	e. s., 7 ft. s. of Hazard.
Sycamore,	n. s., 7 ft. w. of Pleasant.
Thomas,	e. s., 71 ft. n. of Sycamore.
Wamsutta,	n. s., 16 ft. w. of Front.
"	n. s., 276 ft. " "
"	n. s., 465 ft. " "
"	n. s., 610 ft. " "
Water,	e. s., 3 ft. n. of Cove.
"	w. s., 9 ft. " "
"	w. s., 100 ft. n. of Potomska.
"	w. s., 236 ft. n. of Grinnell.
"	e. s., 249 ft. " "
"	e. s., 557 ft. " "
"	w. s., 74 ft. n. of Cannon.
"	e. s., 75 ft. " "
"	w. s., 153 ft. n. of Walnut.
"	e. s., 162 ft. " "
Weld,	s. s., 59 ft. e. of Bowditch.
"	n. s., 106 ft. e. of Purchase.
"	n. s., 23 ft. e. of Pleasant.
"	n. s., 67 ft. w. of Pleasant.
Willis,	n. s., 112 ft. e. of Summer.

List of Manholes.

Name.	Ventilating M. H.	Solid Iron Cover.	Wooden Cover.
Acushnet av.,	61 ft. s. of Blackmer.		
"	2 ft. s. of Rockland.*		
"	1 ft. s. of South.		
"	206 ft. n. of Grinnell.		
"	178 ft. n. of Walnut.		
"	5 ft. s. of Pope.		
"	11 ft. n. of Merrimac.		
"	225 ft. s. of Wamsutta, 17 ft. w. of e. line Ac. av.		
"	109 ft. " " " " "		
"	245 ft. n. of Wamsutta.		
"	483 ft. n. " "		
"	754 ft. n. " "		
"	5 ft. n. of s. line Logan, 31 ft. w. of e. line Ac. av.		
Allen,	29 ft. e. of w. line Orchard.		
Arnold,	On e. line Orchard.		
"	11 ft. e. of w. line Cottage.		
"	137 ft. w. of Chancery, 17 ft. s. of n. line.		
"	3 ft. w. of e. line Tremont.		
Ash,	4 ft. n. of Bedford.		
"	19 ft. s. of n. line Hawthorn.		
"	9 ft. s. of Arnold.		
Atlantic,	451 ft. s. of Union.		
Austin,	41 ft. e. of Shawmut av.		
Bedford,	17 ft. e. of w. line Acushnet av.		
"	7 ft. w. of e. line County.		
Blackburn,	198 ft. n. of Cedar Grove.		
Blackmer,	90 ft. e. of Front.*		
"	20 ft. e. of w. line Water.		
"	48 ft. e. of County.		

Bonney,	7 ft. n. of Rivet.	
"	49 ft. s. of Thompson.	
"	50 ft. s. of Rockland.	
"	9 ft. n. of s. line fair.	
"	Middle of Washington.	
"	Middle of Grinnell.	
"	8 ft. s. of Forest.	
Bowditch,	15 ft. s. of Weld.	
"	In angle n. of Weld.	
"	2 ft. n. of s. line Cedar Grove.	
Campbell,	2 ft. w. of e. line State.*	
"	97 ft. e. of Cedar.	
"	9 ft. " " "	
Cannon,		15 ft. w. of e. line Acushnet av.
Cedar,	18 ft. n. of s. line North, 21 ft. e. of w. line Cedar.	
"	22 ft. n. of Robeson.	
Cedar Grove,	On e. line Blackburn.	
"	4 ft. e. of County.	
Chestnut,	11 ft. n. of Parker.	
Clark,	6 ft. w. of Purchase.*	
"	On w. line State.	
Clinton,	64 ft. w. of Cottage.*	
Coffin av.,	1 ft. e. of w. line Bowditch.	
Coffin,		
Coggeshall,	695 ft. e. of Rock.	
"	7 ft. e. of w. line Rock.*	
"	4 ft. " " " Front.	
"	On e. line Acushnet av.*	
Cottage,	2 ft. n. of Allen.	
"	43 ft. s. of Union.	
"	8 ft. n. of Locust.*	
County,	9 ft. n. of s. line Sherman.	
"	17 ft. n. of s. line Clinton.*	
"	156 ft. n. of Linden.	
"	151 ft. s. of Coggeshall.	15 w. of e. line Water.

*Covered.

List of Manholes — *Continued.*

Name.	Ventilating M. H.	Solid Iron Cover.	Wooden Cover.
County,	3 ft. s. of n. line Coggeshall.		
"	228 ft. s. of Sawyer.		
Court,	4 ft. e. of Florence.		
"	453 ft. w. of Florence.		
Crapo,	18 ft. n. of Mosher.*		
"	100 ft. n. of Katharine.		
"	On s. line Rivet.		
"	15 ft. s. of Thompson.*		
"	14 ft. s. of Rockland.		
Dartmouth,	26 ft. s. of Oak.		
"	3 ft. n. of s. line Hickory.		
Division,	34 ft. e. of Second.		
"	4 ft. w. of County.		
Durfee,	11 ft. w. of Mt. Pleasant.		
"	2 ft. w. of e. line Shawmut av.		
Elm,	On w. line Water.		
"	9 ft. w. of e. line Second.		
"	8 ft. " " " " Purchase.		
"	14 ft. e. of w. line Sixth.		
"	9 ft. w. of e. line Eighth.		
"	9 ft. " " " " County.		
"	26 ft. w. of Park.		
Fifth,	5 ft. w. of e. line, middle of Russell.		
"	123 ft. s. of Madison.		
First,	134 ft. n. of Potomska.		
Fourth,	8 ft. w. of e. line Fourth, 21 ft. n. of s. line Russell.		
"	88 ft. s. of Madison, 15 ft. w. of e. line Fourth.		
Front,	202 ft. s. of Blackmer.		
"	76 ft. n. of Potomska.		

Front,	380 ft. n. of Potomska.*		
"	8 ft. s. of South.		
"	225 ft. s. of Grinnell.		
"			
"			
"			
"			
"			
"	300 ft. s. of Coggeshall.*		
Fruit,	On w. line Juniper.		
"	Middle of Hemlock.		
"	On w. line Mulberry.		
"	On e. line Dartmouth.		
Gifford,	506 ft. e. of Water.		
Grape,	183 ft. w. of Oak.		
"	481 ft. " " "		
"	806 ft. " " "		
Green,	112 ft. s. of Bedford.		
Griffin,	113 ft. e. of Acushnet av.*		
Grinnell,			
"			
"			
"			
"			
"			
"			
"	14 ft. w. of Crapo.		
Hall,	119 ft. s. of Rockland.		
Hawthorn,			
"	286 ft. e. of Tremont.		
"	264 ft. w. of Brigham.		
Hickory,	20 ft. e. of w. line Harrison.*		
High,			
Hillman,			
"			

		33 ft. n. of Grinnell.*	
		297 ft. s. of Howland.*	
		105 ft. s. of Howland.*	
			3 feet s. of School.
		2 ft. e. of Water.	
		On e. line First.	
		On e. line Second.	
		On e. line Acushnet av.	
		3 ft. e. of Fourth.	
		1 ft. e. of Fifth.*	
		4 ft. e. of County.	
			106 ft. w. of Ash.*
			8 ft. w. of e. line Second, 6 ft. s. of n. line High.
			26 ft. w. of e. line Second.
			35 ft. e. of Purchase.

*Covered.

List of Manholes — *Continued.*

Name.	Ventilating M. H.	Solid Iron Cover.	Wooden Cover.
Hillman,	Middle of Chestnut.		
"	25 ft. w. of e. line Park.		
"			20 ft. e. of w. line Newton.
Howard,	311 ft. s. of Coggeshall.		
James,	123 ft. s. of Union.		
Katharine,	58 ft. w. of County.		
Kempton,	10 ft. s. of n. line, 112 ft. e. of Purchase.		
"			On w. line Purchase, 11 ft. n. of s. line Kempton.
"	1 ft. e. of w. line Cottage.		
"	4 ft. " " " " Cedar.		
"	118 ft. e. of Newton.		
Liberty,	5 ft. n. of s. line Elm.		
"	125 ft. s. of Kempton.		
Linden,	2 ft. w. of Purchase.		
"	8 ft. e. of w. line Pleasant.*		
"	1 ft. e. of County.*		
"	40 ft. e. of Ashland.		
Locust,	20 ft. w. of e. line Richmond.		
Logan,	197 ft. e. of Purchase.*		
"	8 ft. " " "		
Madison,			14 ft. e. of w. line Water.
"			9 feet w. of e. line Second.
"			8 feet w. of e. line Fourth.
"	12 ft. w. of e. line County.		
Maitland,	281 ft. w. of Cedar.		
Maple.		3 ft. w. of Cottage.	
Maxfield,			8 ft. w. of e. line Second.
"			7 ft. w. of e. line Purchase.

Maxfield,		
"		
"	Middle of Chestnut.	7 ft. w. of e. line State.*
"	3 ft. w. of Cedar.	9 ft. w. of e. line County.
"	18 ft. e. of w. line Chancery.	
Merrimac,	254 ft. e. of Acushnet av.	
"	23 ft. " " "	
Middle,	12 ft. w. of Front.	
"		
"		6 ft. w. of e. line Water.
"	7 ft. w. of e. line Purchase.	7 ft. w. of e. line Second.
"	5 ft. w. of e. line Sixth.*	
"		
"	8 ft. w. of e. line Summer.	8 ft. w. of e. line County.
Mill,		7 ft. w. of e. line Hill.*
"		13 ft. w. of e. line Cedar, 1 ft. n. of s. line Mill.
"		17 ft. w. of e. line Cedar, 20 ft. s. of n. line Mill.
"	4 ft. w. of Park.	
Newton,	185 ft. n. of Elm.*	
North,	10 ft e. of Chestnut.	
Oak,	41 ft. w. of Dartmouth.	
"	54 ft. w. of Harrison.	
"	74 ft. w. of Clay.	
"	191 ft. n. of Grape.	
"	33 ft. s. of Allen.	
Orchard,	13 ft. n. of s. line No. 4 Mill road.	
"	146 ft. s. " " "	
"	226 ft. " " " " (stone on top),	
"	231 ft. " " " "	
"	Middle of Grinnell.	
Page,	113 ft. n. of Grape.	
"	50 ft. s. of Allen.	
Park,	23 ft. n. of Arnold.	

*Covered.

List of Manholes — *Continued.*

Name.	Ventilating M. H.	Solid Iron Cover.	Wooden Cover.
Park,	186 ft. s. of Union.		
"	7 ft. n. of Court.		
"	7 ft. s. of Parker.		
Pearl,	1 ft. e. of Acushnet av.		
"			5 ft. e. of w. line Purchase.
Penniman,	5 ft. w. of Purchase.*		
"	10 ft. e. of State.		
"	6 ft. w. of e. line County.		
Pope,	335 ft. e. of Chestnut.		
Potomska,	7 ft. w. of Water.*		
"	57 ft. e. of Acushnet av.		
"	25 ft. e. of Fourth.		
Prospect,	42 ft. s. of Grinnell.*		
Purchase,	2 ft. s. of Franklin.		
"	On n. line Linden.		
"	180 ft. s. of Logan, 18 ft. w. of e. line Purchase.		
"	9 ft. s. of Logan.		
"	89. ft n. of Weld.		
"	8 ft. n. of s. line Clark.*		
"	7 ft. n. of s. line Penniman.*		
"	On s. line Cedar Grove.*		
"	316 ft. n. of Cedar Grove.		
"	434 ft. n. of Sawyer.		
Richmond,	119 ft. s. of Locust.		
Rivet,	79 ft. e. of Ac. av., and 14 ft. s. of. n. line Rivet.		
"	97 ft. e. of Fourth.		
"	13 ft. e. of w. line Fourth and 16 ft. s. of n. line Rivet.		
"	611 ft. e. of Crapo.		

Rivet,	300 ft. e. of Crapo.		
"	2 ft. w. of e. line Juniper.		
"	On e. line Dartmouth.		
Rockland,	10 ft. e. of w. line Fourth.		
"	2 ft. e. of County.		
"	47 ft. w. of Bonney.		
"	7 ft. e. of w. line Orchard.		
"	442 ft. e. of Lombard.		
"	84 ft. " "		
"	41 ft. e. of Dartmouth.		
Russell,		25 ft. w. of e. line County.*	
Sawyer,	4 ft. w. of e. line County.*		
School,	41 ft. e. of w. line Front.		
"	On e. line First.		
"	4 ft. w. of e. line Second.		
"	4 ft. w. of e. line Fourth.		
"		9 ft. w. of e. line Sixth.*	
"	1 ft. e. of e. line County.		
Second,	208 ft. s. of Potomska.		
Shawmut av.,	7 ft. s. of Locust.		
Sherman,	101 ft. e. of Bonney.		
Short,	54 ft. s. of Allen.		
Smith,	On e. line of County.		
South,	8 ft. w. of Front.		
"	20 ft. w. of e. line Water.		
"	19 ft. w. of e. line First.		
"	18 ft. w. of e. line Second.		
"	55 ft. e. of Acushnet av.		
Spring,	On e. line County.		
Spruce,	208 ft. n. of Parker.		
Stone,	53 ft. s. of Allen.		
Sycamore,	On e. line Walden.		
"		9 ft. w. of e. line County.*	
"		18 ft. w. of e. line Chestnut.*	
Union,	14 ft. w. of e. line Front.		

*Covered.

List of Manholes — *Concluded.*

Name.	Ventilating M. H.	Solid Iron Cover.	Wooden Cover.
Union,	8 ft. w. of e. line Water.		
"	13 ft. w. of e. line Purchase.		
"	8 ft. w. of e. line Sixth.*		
"	7 ft. w. of e. line Eighth.*		
"	8 ft. w. of e. line County.*		
"	14 ft. w. of e. line Cottage.*		
"	1 ft. w. of w. line Ash.		
"	136 ft. e. of Tremont.		
"	On w. line James.		
"	47 ft. e. of Armour.		
"	25 ft. w. of e. line Sisson.		
Walnut,			7 ft. w. of e. line Water.*
"	7 ft. w. of e. line Second.		
"	8 ft. " " " " Fourth.		
"			9 ft. w. of e. line Fifth.
"			9 ft. w. of e. line Seventh.
"	3 ft. w. of e. line County.		
Ward,	On s. line Allen.		
Warwick,	125 ft. s. of Rockland.		
Washburn,	200 ft. w. of Front.*		
Washington,	102 ft. e. of Dartmouth.		
Water,	3 ft. s. of n. line Delano.		
"	267 ft. s. of Potomska.		
"	16 ft. n. of s. line Potomska.		
"			15 ft. n. of s. line Howland, 15 ft. w. of e. line Water.
"			16 ft. n. of s. line Howland, 18 ft. e. of w. line Water.*
William,	On e. line County.		
Willis,	20 ft. e. of w. line Acushnet av.		
Wilson,	7 ft. s. of Durfee.		
Winsor,	46 ft. w. of County.		

*Covered.

Table of Sewers Laid in New Bedford Previous to January 1, 1891.

NAME.	LOCATION.	Date.	Cost.	Average Depth to Invert.	Average Length of Cut in Feet.	Cost per foot.	GLAZED PIPE. 8 inch.	10 inch.	12 inch.	15 inch.	18 inch.	20 inch.	24 inch.	30 inch.	CEMENT PIPE. 10 inch.	12 inch.	14 inch.	15 inch.	18 inch.	20 inch.	24 inch.	BRICK. 24 inch.	30 inch.	36 inch.	42 inch.	48 inch.	54 inch.	72 inch.	IRON. 18 inch.	24 inch.	48 inch.	54 inch.	Stones.	Wood.
Acushnet Ave.	Between Delano and Blackmer	1887	$2387.81			80.81			327																									
Acushnet Ave.	Between Potomska and River	1885	947.36	6.98	0.16	1.76																												
Acushnet Ave.	Between Potomska and South	1882	869.48	6.64		1.19																												
Acushnet Ave.	Vera Brook, north (see Bedford)																																	
Acushnet Ave.	Walnut St., north	1889	624.49		6.92	3.19		204																										
Acushnet Ave.	Union St., north	1879	724.59			2.54																												
Acushnet Ave.	From River northerly on line Gosnold Mills and South to Matfield	1885	748.91		0.10	1.00				704																								
Acushnet Ave.	From Wills, to connect with Sycamore st. Sewer	1877	1904.39	5.00		3.39								559																				
Acushnet Ave.	Pope St. Sewer	1889	90.80			.80			120																									
Acushnet Ave.	From River to Austin and Hazard, via Wamsutta and Purchase	1871	4400.00			3.54																												
Acushnet Ave.	From River, through Logan, Purchase, Linden, Clark, and Penniman	1881	27178.25	7.80		4.88			1284		1090																							
Arsenal Ave.	Cedar Grove St., north	1885	685.85	5.00		1.52																												
Allen St.	Between Ash and Cedar	1887	660.80	9.78		1.01																												
Arnold & Coushy	Walnut to Orchard	1890	1479.01	10.05	10.05	2.49																												
Arnold St.	Between Park and Tremont	1885	871.19			1.00																												
Ash St.	Arnold to Union	1877	700.00	5.00		1.52																												
Ash St.	Between Middle and Kempton	1873	800.00			1.00																												
Atlantic St.	Union St., south	1888	816.00			.80																												
Austin St.	Between Purchase and County	1886	2091.75			4.01																												
Austin St.	Between County and Ashland	1886	726.00			2.00																												
Austin St.	Between Cedar and Ashland	1886	1217.75	6.45		2.00																												
Austin St.	Between Wilson and Shawmut Ave.	1887	731.25	8.75		1.00																												
Bedford St.	Russell to County	1887	1000.00			1.00																												
Blackmer St.	River to Front St.	1883	4000.00	4.00	4.00	4.00																												
Blackmer St.	Between Water and Pine	1883	1000.00			1.00																												
Blackmer St.	Between First and Second	1886	1916.00	5.04		2.00																												
Blackmer St.	Between Second and County	1887	818.60	5.00		1.00																												
Blackburn St.	Cedar Grove St., north	1890																																
Boundary St.	Rockland to Grinnell	1887	4500.42			1.00																												
Bowdoin St.	Logan to Weld	1885	886.34			1.00																												
Bow Belt St.	Weld to Blackburn, via Cedar Grove	1890	2032.20	6.71	30.01	1.00																												
Campbell St.	Purchase to State	1885	3010.56			1.00																												
Campbell St.	Between State and Cedar	1885	2456.75		7.85	1.00																												
Campbell St.	Between Park and Cedar	1884	709.80			1.00																												
Cedar St.	Middle St., north. No record																																	
Cedar St.	Between Kempton and North St.																																	
Cedar St.	Between Locust and Parker	1881	335.53																															
Cedar St.	Between Robeson and Maitland	1885	874.12	7.50	7.75	1.00																												
Cedar St.	Austin St., north	1885	464.02	6.10	6.50	1.00																												
Cedar Grove St.	Rock St. and Acushnet Ave.	1882	1852.11	6.31		1.12																												
Cedar Grove St.	Extended east of above	1883				1.12																												
Cedar Grove St.	Outlet	1889	115.45			.90																												
Cedar Grove St.	Purchase to County	1886	1137.80			1.00																												
Cedar Grove St.	County St., west	1890	1000.32	11.80	12.85	1.00																												
Chauncy St.	Between Arnold and Union	1884	494.50	7.50	7.85	1.00																												
Chestnut St.	Locust Street, north	1887	109.76	0.86	0.95	1.17																												
Clark St.	Between State and Reynolds	1884	440.20	7.00	7.85	1.00																												
Clinton St.	Between Walnut and Orchard	1881	112.50		7.00	1.00																												
Clinton St.	Between Ash and Cottage	1881	337.50		7.00	1.00																												
Coffin Ave.	Between Purchase and Bonsdrich	1885	3439.21	7.00	7.97	1.05																												
Coffin St.	East of Water	1886-7	1044.37																															
Coggeshall St.	From the river to Acushnet Ave.	1887	5700.15	9.00	7.05	2.56																												
Collins St.	Cedar St., east	1887				1.00																												
Columbia St.	Between Allen and Clay	1882																																
Cottage St.	Between Dartmouth and Bay		190.21			0.85			225																									
Cottage St.	Between Lincoln and Union, via Arnold	1885	4105.00		10.05	2.05																												
County St.	From Rockland to Grinnell, south of Thompson	1885	1000.00		9.00	1.00			831																									
County St.	From Wing and Ballou to	1885	842.40		8.25	1.00																												
County St.	Between Sherman and Grinnell																																	
County St.	Between Weld and Leeds	1888	344.28		10.80	1.19			300																									
County St.	Between Purchase and Peckham, via Sawyer	1889	2383.92		9.53	2.85			199	254	493	177																						
Court St.	Between Park and Florence	1885	2119.72	8.75	7.76	1.12					1072																							
Court St.	Between Florence and Sisson	1886	706.76		9.18	2.00			155																									
Court St.	From the river to Sawyer St.	1884	1711.70		9.00	2.00				500	1220																							
Dartmouth St.	Oak to Allen via Borden	1886	1627.52		10.05	2.00			124	778			424																					
Delano St.	Between Ward and Front	1885	1000.00		6.25	0.57	165																											
Delano St.	County and Second	1887	989.26			1.02			174																									
Division St.	Between Crapo and County	1884	1944.34	7.98	6.75	1.00			1002																									
Division St.	Between County and Second	1889	436.71		8.25	1.16	404	125																										
Dixon	At foot of Rockland. (Discontinued)		950.00					225																										
Dixon	Bonney to Orchard	1884	507.45			1.19		186																										
Dixon	Water to Pine, south of Spring	1879	978.80			0.91					195																							
Dixon at Common		1885	369.25			0.90	110	237																										
Dixon	Robeson property, east of Purchase	1878	150.00			0.75			224																									
Durfee St.	Wilson to Mount Pleasant	1878	910.91			1.02			487																									
Durfee St.	Wilson to Shawmut ave.,	1884	1047.66		7.54	1.00			707																									
Elm St.	From the river to County St.	1851	4259.70			1.09																												
Elm St.	Between Ash and Summer	1872	2701.14			1.00																												
Earl St.	Florence to Rounds	1886	257.77	6.50	5.50	1.02		152																										
Emerson St.	Between Willis and Parker	1883	358.94		7.00	1.00		204																										
Fifth St.	Between Russell and Madison	1889	2460.20	10.53	10.75	4.20		587																										
First St.	Palmolia St., north	1886	140.00			2.00		118																										
First St.	North from drain, south of Spring	1881	300.00			0.91			220																									
Florence St.	Between Kempton and Court	1884	721.50	6.25	5.17	1.00		1020																										
Florence St.	Between Hillman and Kempton	1886		5.67	5.00				687																									
Fourth St.	Between Pamunkis and Thompson	1884	1024.61		9.00	0.75	135																											
Fourth St.	Grinnell to 178 ft. east of County on Washington	1889				0.91	418																											
Fourth St.	Between Russell and Madison	1890	964.58	8.29	8.75	1.24	546																											
Franklin St.	Between Pleasant and County, 4	1879	1468.00	6.10		1.16				768																								
Front St.	Between Blackmer and Delano	1891	1011.15		6.90	2.27	247	103																										
Front St.	Between Potomska and South	1887	995.78		4.30	1.24		695																										
Front St.	Grinnell St. south	1890	250.75	4.25	3.25	1.00	201																											
Front St.	Coggeshall St., south	1890	497.57	9.70	9.90	1.21	131																											
Fuel St.	Road to Dartmouth, via Juniper	1890	3287.14	11.50	11.95	2.28	916	217																										
Gifford St.	From the river west	1889	1145.46		2.87	1.21			946																									
Green St.	Between Bonney and Bedford	1882	607.91		6.50	1.00	408																											
Griffin St.	Between Water and Acushnet Ave.	1888	939.01		7.23	1.94	485																											
Grinnell St.	Rowland to County, via Front	1873	3720.00			0.91	124																											
Grinnell St.	Between County and Crapo	1873	787.00		6.00	1.85									426																			
Grinnell St.	Between Orchard and Dartmouth	1881-83	2081.31		9.75	1.00			985																									
Grape St.	Extension west of Page	1890	7005.85		12.22	12.89																												
Hall St.	Between Thompson and Rockland	1888	2286.53	8.68	6.37	0.67	271																											
Hall's Court	William St., south.	1876	196.20		6.00	0.75																												
Harmony St.	Between Cove Rd. and Middle Road	1887	792.00		6.00	0.75																												
Hawthorn St.	Between Ash and Orchard	1891	738.88		8.00	0.76	124	299																										
Hawthorn St.	Ash St., west	1874	486.26			0.75																												
Hawthorn St.	From 130 ft. west of Ash, west 1,075 ft.	1885	1748.43	9.00	8.00	1.02		401	671																									
Hawthorn St.	Extended west of above	1886	1655.20	9.45	10.03	1.36		796																										
Hazard St.	Between Purchase and County	1879	2993.00			2.07																												
Hickory St.	Dartmouth to Allen, via Ware	1888	1581.44	6.68	6.64	0.88			876																									
Hicks St.	Washburn to Acushnet Ave.	1886	1648.35	7.35	7.06	1.01		1095																										
High St.	Between Purchase and County	1890	1441.92			1.19																												
High St.	East of Water St.	1879	122.72			0.58																												
High St.	East of above	1883	83.27			1.11																												
Hillman St.	From Maxfield to Chestnut, via Second	1885	5561.41			2.12																												
Hillman St.	Between Ash and Chestnut Sts	1874	2199.00			2.56																												
Hillman St.	Between Park and Ash	1879	375.97			0.57																												
Hillman St.	Between Park and Ash	1884	878.25	7.40	8.85	1.10		673																										
Howard St.	Between Coggeshall and Cedar Grove	1890	4812.21	9.60	8.97	1.12	310																											
Howland St.	From the river to a Acushnet Ave.	1872	4588.94			1.00																												
Howland St.	Extension to the east	1888	3286.80																															
James St.	Between Tremont and Union	1889	2167.39	9.81	7.71	2.21	507	294																										
Katharine St.	Crapo to County (including Winsor)	1886	1893.26	7.42	6.80	1.02	440																											
Kempton St.	From the river to County St.	1851	4225.03			1.09																												
Kempton St.	Between High and Purchase, via Second	1889	1754.11	11.14	7.11		758																											
Kempton St.	From Tripp's Brook to County St.	1857-69	4791.46	6.68	6.64	1.05																												
Kempton St.	Newton to Rockdale Ave.	1884	4021.64			1.64		153	844	1050																								
Liberty St.	Between Court and Kempton	1889	774.00		6.27	1.24	4.66																											
Lincoln St.	Between Ash and Union, via Arnold	1871	2085.72			2.24																												
Linden St.	Between County and Ashland	1883	1000.00			1.00		81																										
Lindsey St.	Between Kempton and Court	1884	2010.71			1.28		100																										
Lindsey St.	South of above	1885-86	894.47			1.00		611																										
Locust St.	Cottage to Cedar	1884	446.81			1.30			45																									
Locust St.	Cedar to Shawmut Ave.	1884	1111.21	9.00	9.62	1.00			611																									
Madison St.	From the river to Orchard St.	1885	5551.45			1.86																												
Maitland St.	Cedar St., west	1889	317.00		7.94	1.00		312																										
Maple St.	Ash to Cottage	1873	701.64			1.16																												
Market St.	William to Park Pl.	1883	1005.76		7.16	1.00		200																										
Maxfield St.	From the river to County	1884	1617.67			2.37																												
Maxfield St.	County to Chestnut	1885	913.50			1.00																												
Maxfield St.	Park to Cedar	1888	1249.68	8.00	8.75	2.00		973																										
Mechanics Lane.	William to Eighth, via Sixth	1886	751.74		6.25	1.02																												
Merrimac St.	From the river to State	1887	941.91			1.62																												
Middle St.	From the river to Sumner St.	1885	4552.30			1.14																												
Middle St.	Front St., east	1870-72	4877.51																															
Middle St.	Cedar to Sumner	1887	1279.00		5.00	1.44		99	127	91	191																							
Middle, Ash, and Elm St.		1875	1736.00			2.17																												
Mill St.	Tripp's Brook to Cedar	1870-71	6029.26		6.50	3.09																												
Mill St.	Front west to Hill St., cut North St. & Acushnet Ave	1854	1000.00		8.00	2.57				44					472																			
Mill St.	Between Hill and County	1875	834.02		6.00	1.02									708																			
Mill St.	Crapo to Summer	1871	1983.09			1.00									842																			
Mill St.	Kempton Park	1889	710.80		9.72	2.02					474																							
Mill St.	Crapo to Sumner	1886	778.43	6.10	5.00	1.00			1024																									
Mt. Pleasant St.	Darby St., south	1886	349.67		6.83	0.71			393																									
North St.	Acushnet Ave. to County St.	1886	3010.24			1.00																												
North St.	County St., west	1885	780.02		9.28	1.15			356																									
North St.	From 116 ft. west of County to Chestnut	1890																																
Orchard St.	Between Cedar and Summer	1870	1667.00		7.50	0.87									442																			
Oak St.	Newton to Cedar	1887	1000.25	8.70	7.11	1.00			1375																									
Oak St.	Dartmouth to end in Grape St.	1887	11744.05	11.05	13.81	17.04																												
Orchard St.	Between Grape and Allen	1887	2744.00	9.00	11.11	1.00																												
Orchard St.	Clark's Cove, north	1888	7149.18	10.00	2.80	20.11																												
Orchard St.	Bonney to Dartmouth, via Grinnell	1887	870.45	5.90		1.00																												
Orchard St.	Madison to Arnold	1877	554.14		5.00	0.90		555																										
Page St.	Between Grape and Allen	1887	2744.07	11.30	12.50	1.00	230		137																									
Park St.	Between Elm and Kempton	1885	122.32		7.05	1.00																												
Parker St.	Between Summer and County	1885	1477.25	8.00	8.03	1.35	40		432																									
Parker St.	Between Chestnut and Shawmut Ave.	1891	1197.88	8.00	6.00	1.33	471	561																										
Parker St.	Between Park and Shawmut Ave.	1891	1192.75	8.00	6.95	1.33		560																										
Pearl St.	From the river to and in Acushnet Ave.	1881	5542.46			2.26		355	400		570																							
Pearl St.	Acushnet Ave. to Purchase	1881																																
Pearl St.	Purchase to Washington Ave.	1874	7300.00			1.80		439																										
Pearl and Willis	Outlet	1887-89	1777.50																															
Pope St.	Purchase to County	1883	1000.00			1.00					1025																							
Pope St.	Chestnut St., east	1890	943.21			1.00																												
Potomska St.	River to Pope, via Rockland and Prospect	1891	5163.21	7.20	6.17	1.00	157																											
Prospect St.	Howland St. to 40 ft. south of Grinnell	1890	3010.46	7.87		2.65																												
Purchase St.	From near Page to Pleasant in Franklin	1877	7000.00	7.84	7.80	2.00	627																											
Purchase St.	Cedar Grove to Coffin Ave.,	1887	1744.14	8.13		2.14																												
Richmond St.	Between Parker and Locust	1886	1000.00	7.50	7.00	1.36		300																										
River St.	Between Water and Acushnet Ave.	1889	4000.00	7.50	5.00	1.00	571																											
River St.	Between Acushnet Ave. and Fourth	1890	1427.17	6.87	6.87	1.28	111																											
River St.	Between Crapo and Fourth	1888	1501.91	6.75	6.50	1.00		767																										
River St.	Crapo St., west	1888																																
Rivet St.	Bonney to Dartmouth	1888																																
Robeson St.	Hazard to Ashland, via County	1886	779.51		8.85	1.22			631																									
Robeson St.	Between Cottage and Ashland	1887	735.79		7.50	1.48		349																										
Rockland St.	Acushnet Ave. to County	1884	2787.67		6.07	1.00		158																										
Rockland St.	Between County and Hall	1885	893.67			0.97	295																											
Rockland St.	Between Crapo and Hall	1885	339.51			1.02	235																											
Rockland and Bonney	903 ft. south of Rivet to Oak	1886	29079.91	12.46	10.35	1.00																												
Russell St.	From the river to County	1856	8052.22			2.27																												
School St.	From the river to County	1885	1011.07			2.43																												
Second St.	Potomska St., south	1890	949.74		6.30	1.08	225																											
Second St.	Between Potomska and south	1886	810.38	5.82	4.28	0.94		225																										
Second St.	Between Howland and Grinnell	1888	798.12			1.49		548																										
Second St.	Between Water and Canoe, via Coffin	1884	1174.81		6.61	1.00			573																									
Second St.	Union, north, and in Barker's Court	1882-84	1384.64		6.30	1.42		342																										
Shawmut Ave.	Parker St., north	1889	937.16		8.92	1.03		256																										
Sherman St.	County to Bonney	1888	1824.6		8.82	2.03	509																											
Short St.	From Page 60 ft. south of Allen	1890	1237.50		9.45	1.18	464																											
Smith St.	Between Wing and Bedford	1882	2853.00		6.75	0.95	300																											
Smith & Wallen	Between Sycamore and County	1890	1000.00	12.12	12.00	1.00			125																									
Smith St.	Between County and Cedar	1886	1930.88			1.15																												
Smith St.	Between Cedar and Front	1884	1000.00			0.91	444																											
Smith St.	Between Front and Acushnet Ave.	1887	1053.15		5.71	1.00		254	126																									
Smith St.	Between Acushnet Ave. and County	1883	794.93		5.25	0.81	295	246																										
Spring St.	From School to County, via Second	1883	1581.00			1.76																												
Spruce St.	Purchase St., north	1890	1000.00				227																											
Stone St.	From Page to 80 ft. south of Allen	1890	1137.50		9.48	2.84	471																											
Sycamore St.	East of Purchase	1874	1000.00			1.32																												
Sycamore St.	Between Purchase and County	1884	2100.00			1.28																												
Sycamore St.	Between Walden and Cedar	1887-89	1474.40			1.28																												
Thompson St.	Between Crapo and County	1882	901.56		6.40	0.86		678																										
Tremont St.	Between Union and

1891 — CITY DOCUMENT No. 11.

REPORT

OF THE

BOARD

OF

OVERSEERS OF THE POOR

OF THE

City of New Bedford,

FOR THE YEAR 1890.

NEW BEDFORD:
MERCURY PUBLISHING COMPANY, PRINTERS TO THE CITY.
1891.

In Board of Aldermen,
January 22, 1891.

Received, ordered printed in the City Documents, and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,
January 22, 1891.

Concurred.

WM. A. MACKIE,
Clerk.

Members of the Board.

ORRICK SMALLEY,
THOMAS H. KNOWLES,
WILLIAM H. MATHEWS.

Officers of the Board.

ORRICK SMALLEY,
Chairman and Secretary.

EDWIN E. WAITE,
Physician to the Board.

ELLA F. BUCKLYN,
Clerk to the Board.

PELEG S. MACY,
Superintendent of Almshouse.

Mrs. PELEG S. MACY,
Matron of Almshouse.

Rev. GEO. T. FLANDERS,
Chaplain of Almshouse.

SAMUEL DAMMON,
Superintendent of Wood and Coal Yard.

REPORT.

To His Honor the Mayor, and City Council of New Bedford:

GENTLEMEN, — We have the honor to report the doings of the Board of Overseers of the Poor of New Bedford for the year 1890. We respectfully ask your examination of the receipts and expenditures tabled in this Report.

We deem the financial account of the monthly audit and detailed expenditures to be of greater interest to the public than any other portion of the Overseers' Report, however extended it may be.

We think the expenses of this department for 1891 will exceed those of 1890. The unusual requests for aid during the fall and winter months indicate an increase in the population of the city, such as adds to the already great number of persons who are unable to find employment during the winter months, and therefore of necessity are obliged to apply for temporary relief.

This of course will add to the expenses and greatly increase the business of the office.

In giving outside relief, we have almost always examined each case at their homes before rendering the required aid. This system of personal investigation (although it takes much of the secretary's time) has given great satisfaction, inasmuch as it has proven to us that

nearly every person asking for relief was necessitated to do so, and, in consequence, was aided, irrespectively of nationality or settlement.

The management of the almshouse under the care of the superintendent, P. S. Macy, Esq., and the matron, Mrs. P. S. Macy, has been very satisfactory to the Board of Overseers. The sum paid from the annual appropriation for the poor, for the repairs about the premises, and for building fences, walls, and furnishing carriages, and keeping the same in repair, together with all the farming utensils to be furnished and kept in repair, is quite an item in the expenses of this department.

The objection against the almshouse being a workhouse where drunkards are committed, would be much less were those objecting better acquainted with the histories of the inmates and those sentenced there merely for drunkenness.

The farm product for the year has not been so good as we hoped it would be, except the hay crop; that has been unusually large.

The truant school may be mentioned in this Report, seeing the supplies were furnished from the almshouse. The average of 12 truant boys for the year will hardly warrant, in our opinion, an expenditure of ten thousand dollars.

Were we a city having one hundred to one hundred and fifty thousand inhabitants, it might be necessary to build and equip such an institution as has been discussed during the year 1890.

We think the present building, with some additions and alterations, sufficient for a city of 40,000 inhabitants. The failure of proper care and discipline in the present school has been for the want of a suitable superintendent and matron. Let the city furnish suitable persons for superintendent and matron, to act as parents and teachers,

and the truant school will be a home for the boys and a place for improvement.

In our Report of last year, we stated that the poor we have with us and in all probability will ever continue to have them. We also stated that it was of great importance to us to know how best to ameliorate the condition of the present unfortunate poor, and make as light as possible the burden of those who bear the expense. To accomplish this in some measure (as we trust we have) has required very close attention to the business of the department.

The amount expended for relief of State, city, and town paupers has been very promptly paid. This has helped us to show a very satisfactory net expense for the year, as appears in the following statement, viz.:

Annual appropriation,	$30,000.00
Special appropriation,	1,500.00
Total,	$31,500.00
Balance to credit,	2,480.53
Net expense,	$29,019.47

We are very much pleased to report that our employes have performed their duties to our entire satisfaction, and in conclusion we desire to express our thanks for kindness received from His Honor the Mayor, the Board of Aldermen, and Common Council.

Respectfully submitted,

ORRICK SMALLEY,
THOMAS H. KNOWLES,
WM. H. MATHEWS,

Overseers of the Poor of New Bedford.

FINANCIAL STATEMENT, 1890.

DR.

To amount of annual appropriation,	$30,000.00
To amount of special appropriation,	1,500.00
Received from State, for support of paupers,	2,564.51
Received from cities and towns, for support of paupers,	3,411.30
For board of soldiers,	164.35
For board of lunatics,	752.98
Miscellaneous,	122.07

City almshouse credits:

Amount from fire department,	$654.10	
Sale of produce,	213.86	
Truant school,	1,394.47	
Street department,	162.25	
Board of paupers,	268.86	
Board of soldiers,	152.00	2,845.54
		$41,360.75

CR.

By amounts expended as per monthly audits, as follows:

MONTHS.	Outside Relief	Lunatic Hospitals and Feeble Minded	Cities and Towns.	Almshouse.	Totals.
January,	$1,839.46	$2,068.17	$253.21	$767.42	$4,928.26
February,	1,858.17		214.00	728.66	2,800.83
March,	1,895.26		36.00	784.27	2,715.53
April,	1,640.08	1,916.97	7.00	794.12	4,358.17
May,	1,341.30			785.21	2,126.51
June,	1,386.70			1,024.79	2,411.49
July,	1,305.29	1,880.46	179.21	1,023.78	4,388.74
August,	1,342.04	48.72	7.00	786.90	2,184.66
September,	1,834.48		58.61	1,024.92	2,918.01
October,	1,609.59	1,924.40	54.05	755.14	4,343.18
November,	1,298.00		2.34	1,068.49	2,368.83
December,	1,781.17			1,554.84	3,336.01
Totals,	$19,131.54	$7,838.72	$811.42	$11,098.54	$38,880.22

Balance to credit, $2,480.53.

EXPENDITURES IN DETAIL FOR OUTSIDE RELIEF IN 1890.

MONTHLY AUDITS.	Groceries.	Lunatic Hospitals.	Cities and Towns.	Cash Orders.	Salaries and Travel.	Physician and Medicine.	Stationery and Printing.	Burials.	Boots and Clothing.	Transportation.	Horse hire.	Office Expenses.	Rents.	Board Outside.	Wood and Coal Yard.	Totals.
January,	$697.94	$2,068.17	$253.21	$166.50	$150.00	$135.00	$19.47	$75.00	$4.00	$7.71		$9.00		$18.00	$556.84	$4,161.84
February,	939.00		214.00	140.00	251.76	135.00	1.67	25.00	17.79			.95		54.00	293.00	2,072.17
March,	774.25		36.00	141.90	251.24	135.00	32.50	124.00	9.25	44.35		27.00			355.77	1,931.26
April,	734.60	1,916.97	7.00	214.67	252.24	135.00		66 50		54.10		3.00	$10.00	34.50	136.07	3,564.05
May,	750.00			136.60	151.00	135.00		80.00	3.40	22.95	$9.50	1.25			51.60	1,341.30
June,	654.25			140.50	150.79	135.00		143.00	4.00	17.28		12.95		71.78	57.15	1,386.70
July,	750.50	1,880.46	179.21	161.90	149.99	135.00		35.00	9.50	5.25		6.00	6.00		46.15	3,364.96
August,	752.75	48.72	7.00	121.00	249.99	135.00		36.00		2.00		.90			44.40	1,397.76
September,	675.00		58.61	138.25	149.99	135.00		116.00		78.38		27.00	4.00	19.50	491.36	1,893.09
October,	795.00	1,924.40	54.05	156.05	149.99	135.00		45.00	5.95	15.00		6.00		30.00	271.60	3,588.04
November,	690.76		2.34	103.20	152.79	135.00		80.00	11.25	27.70		10.80			86.50	1,300.34
December,	903.05			124.50	252.06	135.00		97.00	5.75	24.13	5.00	103.25	6.00		125.43	1,781.17
	$9,116.50	$7,838.72	$811.42	$1,745.07	$2,311.84	$1,620.00	$53.64	$922.50	$70.89	$298.85	$14.50	$208.10	$26.00	$227.78	$2,515.87	$27,781.68

DETAILED EXPENDITURES AT THE ALMSHOUSE, 1890.

Months.	Flour and Grain.	Dry Goods and Clothing.	Beef, Fish, &c.	Groceries.	Shoes, Hats, and Leather.	Furniture and Crockery.	Hardware.	Fuel.	Repairs on Premises.	Carriages, Repairs, and Blacksmithing.	Supt., Labor, and Nursing.	Medicines.	Oils, Paints, &c.	Dressing.	Miscellaneous.	Totals.
January,	$108.78		$80.87	$97.04	$11.25	$5.75		$100.71	$12.68	$8.45	$320.83	$14.01			$7.05 (Weighing. Dentistry.)	$767.42
February,	86.06	$22.61	75.21	161.89	5.00	8.30	$3.79	15.73			327.99	14.75	$5.00		2.33 (Stationery.)	728.66
March,	76.53	6.13	82.20	133.99		14.08		68.37	.60	25.42	326.69	42.76			7.50 (Hitching horse.)	784.27
April,	98.08	5.00	88.79	134.31				77.46	40.36		346.72		3.40			794.12
May,	93.90	6.21	95.24	188.31	1.75	2.50		51.17	2.30	8.65	319.48	15.45			.25 (Telephone.)	785.21
June,	83.46	100.05	92.53	162.78	21.64	14.68	18.14	24.61		71.57	325.98	59.37	26.98		23.00 (Telephone.)	1,024.79
July,	95.83	.90	80.51	129.19	20.20	3.00	14.19	11.33	127.66	27.40	492.57				21.00 ("Mercury." Use of Oxen.)	1,023.78
August,	88.58	25.36	110.88	155.24	12 25	22.58	7.35	11.52	10.45		314.69	24.00	4.00			786.90
September,	111.97	45.72	81.43	177.33	4.25		1.74	188.78	26.43	28.40	326.34	27.33			5.20 (Globe Gas Light.)	1,024.92
October,	107.86		94.14	102.62	7.75	5.56	.50	44.03	12.87	3.80	338.61	7.49	4.60	$11.90	13.50 ("Standard." Hitching horse.)	755.14
November,	153.54	78.90	106.05	182.10	13.85			136.14	45.93		325.98	26.00			(Rope. Hitching horse.)	1,068.49
December,	158.74	78.83	78.70	206.35	50.87	16.03	33.96	67.53	79.29	82.23	317.87	54.88	4.40	295.02	30.14 (Telephone.)	1,554.84
Totals,	$1,263.33	$369.71	$1,066.55	$1,831.15	$148.81	$92.48	$79.67	$797.38	$358.57	$255.92	$4,083.75	$285.95	$48.38	$306.92	$109.97	$11,098.54

STATISTICS OF OUTSIDE RELIEF.

Gross cost of aid to persons outside of almshouse, 1890,		$27,781.68
Receipts from various sources,		8,515.21
		$19,266.47
Amount paid for support of persons in State lunatic hospitals, and in other cities and towns, chargeable to this city,		8,650.14
Leaving as net expenditure in aid of poor residing here, including State paupers, and those chargeable to other cities and towns,		$10,616.33
Number of families aided in 1890,	602	
" " settlement here,	311	
" " settlement elsewhere,	100	
" " State paupers,	191	
Number of persons aided,		1,512
" " settlement here, males 232, females 436		
" " " elsewhere, males 120, females 145		
" " State paupers, males 281, females 298		
Average cost of aid to each family, yearly,		$17.63
Average cost of aid to each person, yearly,		$7.02

TRANSPORTATION.

Number of families sent to their homes,	26
Number of persons sent to their homes,	58
Number of persons sent to State almshouse,	9

BURIALS.

Males 51, females 47,	98

INSANE.

Number of insane at asylums during the year:		
Males 30, females 28,		58
Remaining at city's expense December 31, 1890,		41
At Taunton Lunatic Hospital,	36	
Westborough Insane Hospital,	2	
Worcester Insane Asylum,	1	
Worcester Lunatic Hospital,	1	
Mass. School for Feeble Minded,	1	

PAUPERS AIDED ELSEWHERE,

But having settlement here (exclusive of lunatics),	families 30, persons 67
Amount paid for their support in 1890,	$811.42

ALMSHOUSE REGISTER.

Number remaining December 31, 1889, 70

Months.	Admitted.	Discharged.	Remaining.
January,	9	11	68
February,	1	3	66
March,	6	9	63
April,	4	7	60
May,	1	6	55
June,	2	3	54
July,	8	5	57
August,	14	4	67
September,	7	5	69
October,	10	7	72
November,	8	3	77
December,	10	8	79

Whole number during the year,	150
Discharged during the year,	71
Remaining December 31, 1890,	79
Average daily number,	75

PRODUCTS OF FARM FOR 1890.

Hay,	130 tons.
Straw,	5 "
Pumpkins and squashes,	7¼ "
Potatoes,	300 bushels.
Oats,	149 "
Beets,	321 "
Carrots,	20 "
Onions,	30 "
Parsnips,	10 "
Turnips,	450 "
Peas,	10 "
Beans,	9 "
Cabbage,	650 heads.
Sweet corn,	335 doz. ears.
Veal,	679 pounds.
Pork,	6,470 "
Milk,	34,624 quarts.

SUMMARY.

Gross expenditure for the year,	$11,098.54
Credits,	2,845.54
	$8,253.00
Average yearly expense of each inmate, including truants and persons committed to the workhouse, 21,	$85.96
Average monthly expense,	$7.16
Average weekly expense,	$1.65

WORKHOUSE REGISTER.

Whole number December 31, 1889, 8

Months.	Admitted.	Discharged.	Remaining.
January,	2	2	8
February,	3	1	10
March,	4	4	10
April,	0	2	8
May,	1	2	7
June,	3	3	7
July,	4	0	11
August,	1	2	10
September,	1	2	9
October,	5	2	12
November,	2	3	11
December,	1	2	10

Whole number during the year, 35
Discharged during the year, 25
Remaining December 31, 1890, 10
Average daily number, 9

TRUANT SCHOOL REGISTER.

Whole number remaining December 31, 1889, 12

Months.	Admitted.	Discharged.	Remaining.
January,	0	1	11
February,	0	2	9
March,	4	0	13
April,	2	4	11
May,	3	1	13
June,	0	0	13
July,	0	0	13
August,	0	3	10
September,	3	2	11
October,	3	0	14
November,	0	0	14
December,	0	0	14

Whole number during the year, 27
Discharged during the year, 13
Remaining December 31, 1890, 14
Average daily number, 12

REPORT

OF THE

PHYSICIAN TO THE BOARD OF OVERSEERS OF THE POOR,

FOR THE YEAR ENDING JANUARY 5, 1891.

GENTLEMEN:—I respectfully submit to you the following report of the work done by your physician, commencing January 6, 1890, to January 5, 1891.

The whole number of house visits, 900; office calls, 837; and at the almshouse 105 visits have been made. There have occurred 43 deaths, seven of the said deaths at the almshouse.

There have been 5 cases of childbirth.

Yours respectfully,

E. E. WAITE, M. D.

January 6, 1891.

REPORT

OF THE

SUPERINTENDENT OF THE CITY WOOD AND COAL YARD.

GENTLEMEN:—There has been received at the yard during the year ending December 31, 1890, 138 cords 7 feet 2 inches of wood, and 229 tons 1995 lbs. of coal. Have delivered 254¼ tons of coal, and 88 cords 0 feet 4 inches of wood, on 1,424 orders.

There has been sawed and split during the year 139 cords of wood.

All of which is respectfully submitted.

SAMUEL DAMMON.

1891 — CITY DOCUMENT No. 12.

ANNUAL REPORT

OF THE

SUPERINTENDENT OF BURIAL GROUNDS

FOR 1890.

NEW BEDFORD:
MERCURY PUBLISHING COMPANY, PRINTERS TO THE CITY.
1891.

In Board of Aldermen,
March 12, 1891.

Received and ordered printed in the City Documents and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,
3 mo. 26, 1891.

Concurred.

WM. A. MACKIE,
Clerk.

REPORT.

To the Hon. Charles S. Ashley and the City Council of New Bedford:

The Superintendent of Burial Grounds herewith submits his fourth annual report.

During the past year more attention has been given to making solid dry avenues than in any other direction.

In the old part of Oak Grove every avenue is now in good condition with dry graveled drives; and the new part of the same cemetery is nearly completed in the same manner.

At Rural cemetery some three hundred square yards have been concreted; and about two thousand loads of gravel put on the avenues in both the old and new parts.

Mains and hydrants for water have been laid 1250 feet from the pipes laid three years ago, bringing the water to the high ground to the west, and along the main avenue to the south about five hundred feet.

A new and substantial stone wall has been built across the old entrance to Winterville, and carried about five hundred feet to the north, and it should be completed this spring.

A large addition has been built to the tool house, at the sexton's house, and a bay-window added on the Dartmouth street side of the house.

The stone work on the public tomb has been overhauled and put in good order, and a handsome substantial curbing put around the front.

About four acres of rough ground has been cleared this year; part of it has been sold, and the balance will be ready for the sale of lots this spring.

At Oak Grove a new barn has been built; the old one, having become unfit for use, has been removed.

The recommendation of the Mayor for a chapel in each ground, I most heartily approve, as in stormy weather services have to be held in the open air, sometimes under very trying circumstances.

I recommend the building of a new tomb at Oak Grove in the new part.

The old tomb is very small, and there is only space for six or eight bodies.

It is built on plans of forty years ago, and is entirely inadequate for the present day; it is the intention to remodel it this spring, when its capacity will be doubled.

On an average five men have been employed in each cemetery, from April to November, keeping the avenues, borders, and neglected lots in good order.

Lots to the value of $1,345 have been sold in Oak Grove and $2,345 in Rural cemetery during the past year.

There have been 226 interments in Oak Grove, and 229 in Rural cemetery.

The old ground on Second street has been kept as well as it is possible to keep it.

Pine Grove, at the Head of the River, is under the charge of A. J. Skiff, and since he has had control it has been kept in good condition; and I believe the owners of lots there are satisfied with its condition inside, but very much dissatisfied with the entrance, from the road to the cemetery gates.

This is not under the control of the Superintendent of Burial Grounds, but of the Board of Public Works.

The number of perpetual care lots is on the increase each year, and as the public begin to understand its benefits, advantage is being taken of the city's liberal offer to forever care for these lots, if sufficient money is deposited with the City Treasurer.

In conclusion, I take this opportunity to thank the City Council for the confidence reposed in me; insomuch, that when special appropriations have been asked for to carry on the work of putting our cemeteries in good order, they have always been granted.

Respectfully submitted.

WILLIAM SANDERS,
Supt. of Burial Grounds.

New Bedford, March 2, 1891.

1891 — CITY DOCUMENT No. 13.

ANNUAL REPORT

OF THE

Inspector of Milk and Provisions

AND

ANIMALS INTENDED FOR SLAUGHTER,

FOR THE

YEAR ENDING DEC. 31, 1890.

NEW BEDFORD:
MERCURY PUBLISHING COMPANY, PRINTERS TO THE CITY.
1891.

In Board of Aldermen,
February 12, 1891.

Received, ordered printed in the City Documents, and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,
2 mo. 12, 1891.

Concurred.

WM. A. MACKIE,
Clerk.

REPORT.

NEW BEDFORD, January 1st, 1891.

To His Honor the Mayor and the Board of Aldermen of the City of New Bedford:

GENTLEMEN,—The Report of this office, for the year ending December 31st, 1890, is herewith respectfully submitted:

OPERATIONS OF THE YEAR 1890.

351 milk licenses and registers granted, at 50 cents,	$175.50
5 oleomargarine registers and licenses, at 50 cents,	2.50
Total,	$178.00

Number of visits made and samples of milk inspected, 450.

Have condemned as unfit for food over six thousand pounds of beef, five hundred pounds of fish, about eight bushels of clams; have also killed three diseased cows as unfit for dairy purposes or food, and seized one diseased cow after being brought into market and sold. I arrested and convicted both seller and buyer, and they were each fined $50 and costs, which they paid. Have also seized one-half of a carcass of bob veal and caused the seller to be arrested. He was fined $50 and costs and has appealed to the Superior Court at Taunton in Febru-

ary. Have also visited and inspected the premises and herds of most of our milk producers and have found very little to complain of and much to commend.

EXPENSES OF OFFICE.

Office rent, heat, and light,	$142.00
N. B. Mercury,	6.00
N. B. Standard,	6.00
One milk register book,	8.75
Stationery,	9.60
Advertising removal, Standard, 2 weeks,	2.79
Advertising removal, Mercury,	2.79
Notice to public, Standard,	1.43
Notice in specials, Standard,	1.56
Notice in specials, Mercury,	1.56
Notice to dealers, specials, Mercury, 14 lines, April 3d to June 28,	17.68
" " Standard, " "	18.00
Telephone,	39.00
Sign and post, door and steps for office,	23.40
Painting the above,	11.20
4 dozen pens,	.40
Salary,	600.00
	$892.16

Respectfully submitted.

DR. D. C. ASHLEY, Veterinary Surgeon,
Inspector of Milk, Provisions, &c.

ORDINANCES.

In the Year Eighteen Hundred and Ninety.

AN ORDINANCE

PROVIDING FOR THE APPOINTMENT OF A SUPERVISOR OF WIRES.

Be it ordained by the City Council of the City of New Bedford, as follows:

SECTION 1. The office of Supervisor of Wires for the city of New Bedford is hereby established.

SECTION 2. Forthwith upon the passage of this ordinance, and thereafter annually in the month of April, at the time of the election of the other officers of the city, the Mayor shall nominate, subject to confirmation by the City Council, a person to be Supervisor of Wires, who shall hold his office until the next annual election of city officers in April and until another be duly appointed in his stead: unless sooner removed by the City Council.

SECTION 3. It shall be the duty of the Supervisor of Wires to faithfully perform all the duties required to be performed by Chapter 404 of the acts of the Legislature of the year 1890, and all acts amending the same or in

addition thereto, and shall have all the powers and authority created thereunder.

SECTION 4. In full compensation for all the services of the Supervisor of Wires he shall receive such salary as the City Council may from time to time fix and determine.

SECTION 5. This ordinance shall take effect upon its passage.

IN BOARD OF ALDERMEN, SEPTEMBER 11, 1890.
Passed to be ordained.
WALTER CLIFFORD, Mayor.

IN COMMON COUNCIL, September 25, 1890.
Passed to be ordained.
ELIOT D. STETSON, President pro tem.

Approved September 29, 1890.
WALTER CLIFFORD, Mayor.

A true copy.
Attest: DANIEL B. LEONARD,
City Clerk.

In the Year One Thousand Eight Hundred and Ninety-One.

AN ORDINANCE

AMENDING SECTION 17 OF CHAPTER XI. OF THE ORDINANCES RELATIVE TO THE EXAMINATION OF PLACES WHERE COMBUSTIBLE MATERIAL MAY BE ACCUMULATED.

Be it ordained by the City Council of the City of New Bedford, as follows:

SECTION 1. Section 17 of Chapter XI. of the Ordinances is hereby amended so as to provide that the duty imposed upon the Board of Engineers, under said section, may also be performed by any assistants appointed by such Board of Engineers; and said Board of Engineers are hereby authorized to appoint as such assistants any members of the fire department of the city.

SECTION 2. This ordinance shall take effect upon its passage.

In Board of Aldermen, March 26, 1891.
Passed to be ordained.
CHARLES S. ASHLEY, Mayor.

In Common Council, March 26, 1891.
Passed to be ordained.
JOSEPH DAWSON, President.

Approved March 27, 1891.
CHARLES S. ASHLEY, Mayor.

A true copy.
Attest: DANIEL B. LEONARD,
City Clerk.

In the Year one Thousand Eight Hundred and Ninety-One.

AN ORDINANCE

PROVIDING THAT THE SUPERINTENDENT OF THE BOARD OF PUBLIC WORKS SHALL, EX OFFICIO, HAVE THE CARE OF SHADE TREES AND TREES BELONGING TO THE CITY.

Be it ordained by the City Council of the City of New Bedford, as follows:

SECTION 1. On and after the passage of this ordinance the Superintendent of the Board of Public Works shall, ex officio, have the care of shade trees and trees belonging to the city, and perform all the duties specified by law pertaining to the office of City Forester, and shall receive such compensation as the City Council may from time to time determine.

SECTION 2. Chapter LXVIII. of the City Ordinances is hereby repealed.

SECTION 3. This ordinance shall take effect upon its passage.

In Board of Aldermen, April 30, 1891.
Passed to be ordained.
CHARLES S. ASHLEY, Mayor.

In Common Council, April 30, 1891.
Passed to be ordained.
JOSEPH DAWSON, President.

Approved May 1, 1891.
CHARLES S. ASHLEY, Mayor.

A true copy.
Attest: DANIEL B. LEONARD,
City Clerk.

In the Year One Thousand Eight Hundred and Ninety-One.

AN ORDINANCE

Relating to Buildings in the Fire Districts.

Be it ordained by the City Council of the City of New Bedford, as follows:

Section 1. There shall be appointed at the commencement of each municipal year, a joint standing committee to consist of two Aldermen and three members of the Common Council, to be called the Committee on Buildings in the Fire Districts, and said committee shall hold regular meetings as often as once a month.

Section 2. For the purpose of securing the city of New Bedford from damage by fire, two certain fire limits are hereby established, the boundaries of which are as follows:

First. Commencing at a point in the centre of South Second street at the central point of its intersection with Spring street, thence westerly in the centre of said Spring street to the central point of its intersection with Sixth street; thence northerly in the centre of Sixth street to the central point of its intersection with Middle street; thence easterly in the centre of Middle street to the central point of its intersection with North Second street; thence southerly in the centre of said North Second street and South Second street to the point of beginning.

No person shall erect or cause to be erected any building, or make or cause to be made any addition to any building already erected or in process of erection, within the fire limits hereby established, unless the same be constructed of brick, stone, or iron, in the manner and of the materials, dimensions, and upon the conditions herein set forth, viz.:

All one-story buildings shall be constructed of brick or stone walls, which shall not be less than 8 inches solid thickness.

All two-story buildings shall be constructed of brick or stone walls, which shall not be less than 12 inches solid thickness for first story and 8 inches solid thickness for second story.

All three-story buildings shall be constructed of brick or stone walls, which shall not be less than 16 inches solid thickness for the first story, 12 inches solid thickness for the second story, and 8 inches solid thickness for the third story.

All four-story buildings shall be constructed of brick or stone walls, which shall not be less than 24 inches solid thickness for the first story, 20 inches solid thickness for the second story, 16 inches solid thickness for the third story, and 12 inches solid thickness for the fourth story.

All five-story buildings shall be constructed of brick or stone walls, which shall not be less than 28 inches solid thickness for the first story, 24 inches solid thickness for the second story, 20 inches solid thickness for the third story, 16 inches solid thickness for the fourth story, and 12 inches solid thickness for the fifth story.

All six-story buildings shall be constructed of solid brick or stone walls, which shall not be less than 32 inches thick for the first story, 28 inches thick for the second story, 24 inches thick for the third story, 20 inches thick for the fourth story, 16 inches thick for the fifth story, and 12 inches thick for the sixth story.

All partition walls between adjoining buildings shall be the same thickness as outside walls for each story as walls of buildings are required to be in the foregoing provisions, and shall extend at least two feet above the roofs of said adjoining buildings.

All buildings designed for use as stores shall have brick or stone partition walls to extend from the bottom of the cellar to the top of the second floor timbers.

All main partitions in school houses shall be constructed of brick or stone of the same thickness in each story as is required herein with reference to thickness of walls of buildings in corresponding stories.

The roofs of all buildings erected or repaired within said limits shall be covered with fire-proof material, which shall consist of copper, tin, tar and gravel, asbestos felting, slate, metallic shingles, terra cotta tiling, or corrugated sheet iron.

All cornices and gutters shall be constructed of metal, and in no case shall wooden shingles or wooden cornices or gutters be placed upon any building erected or repaired within said limits.

All bay-windows and other projections erected, constructed, or repaired within said limits shall be covered with sheet metal.

No person shall erect or cause to be erected, or make or cause to be made, any addition to any building erected or in process of erection within said limits, unless he shall upon written application first obtain permission so to do, in accordance with the provisions of this ordinance.

Second. Outside of and expressly excluding the territory comprising the first fire limit, the second fire limit shall comprise the territory herein described, viz.: Commencing at the channel of the Acushnet river at a point easterly from the foot of Sawyer street, thence in a line running westerly through the centre of Sawyer street to the central point of

its intersection with Purchase street; thence southerly in the centre of Purchase street to the central point of its intersection with Weld street; thence westerly in the centre of Weld street to the central point of its intersection with County street; thence southerly in the centre of County street to the central point of its intersection with Blackmer street; thence easterly in the centre of Blackmer street and in a line prolonged from the centre of said street to the channel of the Acushnet river; thence northerly by the channel of the Acushnet river to the point of beginning.

No person shall erect or cause to be erected any building, or make or cause to be made any additions to any building already erected or in process of construction, within the said second fire limit, unless he shall upon written application first obtain permission so to do in accordance with the provisions of this ordinance, provided the building to be erected or the addition to be made covers more than one hundred fifty square feet of ground surface. All buildings erected and all additions to buildings made within the the second fire limit shall be constructed of such material and in such manner as the Committee on Buildings in the Fire Districts shall direct.

Section 3. All applications to build, alter, add to, or move any building within said first fire limit, and all applications to build, alter, add to, or enlarge any building already constructed or in process of construction, wherein such building, alteration, addition, or inlargement covers more than one hundred fifty square feet of ground surface within the second fire limit, and all applications to move any building within said second fire limit, shall be presented to the Inspector of Buildings and the Chief Engineer of the Fire Department, each of whom shall indorse thereon his approval or disapproval of said application; and such application shall thereupon be presented to the Committee on Buildings in the Fire Districts, which committee by a

majority vote may grant such application upon such terms, conditions, and regulations as they deem proper.

SECTION 4. No building shall be erected in the city of New Bedford, without the fire limits, and no person shall make or cause to be made any addition to any building covering over twelve hundred fifty square feet of land, except upon written application and permission so to do, as provided in section 3 of this ordinance.

SECTION 5. Any person violating the provisions of this ordinance shall be liable to a penalty not exceeding one hundred dollars for each offence.

SECTION 6. Chapter XII. of the Ordinances of the city of New Bedford is hereby repealed.

SECTION 7. This ordinance shall take effect upon its passage.

IN COMMON COUNCIL, June 11, 1891.

Passed to be ordained.

JOS. DAWSON, President.

IN BOARD OF ALDERMEN, June 25, 1891.

Passed to be ordained.

CHARLES S. ASHLEY, Mayor.

Approved July 3, 1891.

CHARLES S. ASHLEY, Mayor.

A true copy.

Attest: DANIEL B. LEONARD,
City Clerk.